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ABSTRACT

Burford, James B., Jane L. DeLashmuth, and Ralph T. Roberts. 1981. Hydrologic data for experimental agricultural watersheds in the United States, 1972. U.S. Department of Agriculture, Miscellaneous Publication No. 1412, 433 pp.

Hydrologic data from 131 agricultural watersheds for calendar year 1972 are summarized in this publication. Daily and monthly total precipitation and streamflow together with annual maximum peak discharge and maximum runoff for selected time intervals are included. Watershed descriptive information is presented. Maximum and minimum daily temperatures are given for many of the watersheds. This is the 16th publication in this series.

KEYWORDS: Air temperature, hydrology data, hydrology research, precipitation, streamflow, water data, watersheds.

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Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1972

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This publication presents basic data on monthly precipitation and runoff; annual maximum discharge and maximum volumes of runoff; daily precipitation and mean daily discharge, with daily air temperature for some areas; and selected runoff events, with associated data on rainfall, land use, and antecedent conditions for agricultural watersheds where research was in progress during 1972. It is a continuation of processing and releasing hydrologic data of general interest collected cooperatively with other agencies.

Throughout the watershed studies the State agricultural experiment stations have collaborated in selecting, planning, and conducting these studies. In several studies the U.S. Geological Survey and State and local agencies, such as State water boards and highway departments of local drainage and conservation districts, have assisted in the work. The classification and correlation of soils and evaluation of other watershed characteristics in the descriptions have been based mostly on field surveys by the U.S. Department of Agriculture's Soil Conservation Service.

These data were collected originally for specific research objectives, which are still in progress or have been attained. In addition, they can serve many other purposes. This publication provides information for other government agencies, university staff members, graduate students, private engineers, and those who need detailed, factual information concerning agricultural watersheds. High-quality hydrologic data such as these have historic value in addition to providing a basis for research and design and evaluation of projects and programs for conservation and development of the Nation's water resources.

Although the data on which this publication is based were collected in 1972 or earlier, the findings are still valid and are used for further research on agricultural watersheds.

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The decimal system of paging is used to index the watershed data. Pages are numbered at the bottom according to location and watershed number, and the data for each watershed are given on one or more pages. For example, page 10.001-1 is location 10 (Watkinsville, Ga.), Watershed 1 (W-1 at Watkinsville), and page 1 of the data for that watershed. For convenience in finding items listed in table 3, pages are also numbered consecutively at the top.

Table 3 is a list of continuing or new watersheds by State, locality, assigned location number, and land resource area, with number of watershed units and selected runoff events reported for 1972 in this publication. Table 4 includes similar data on discontinued watersheds.

Hydrologic Data

for Experimental Agricultural Watersheds

in the United States, 1972

This is the 16th publication in the series on hydrological data by the Science and Education Administration - Agricultural Research (SEA-AR) (formerly Agricultural Research Service (ARS)). The first three are described in the following section and the others are summarized in table 1. Since the decimal paging system used (see explanation on preceding page) is consistent with that at the bottom of pages in the other 15 publications, previously published records and general descriptions can be readily found and consulted.

This publication contains selected hydrologic data from 131 watersheds for 1972. It includes data on monthly precipitation and runoff for all the watersheds; annual maximum discharge and maximum volumes of runoff for intervals of 1, 2, 6, and 12 hours and 1, 2, and 8 days for 117 watersheds; daily precipitation for 130 watersheds; mean daily discharge for 131 watersheds; daily maximum and minimum air temperatures for 18 watersheds; and detailed information on 1 or more selected typical storm events for 98 watersheds.

Information on selected storm events includes (1) tabular data for antecedent rainfall and runoff; (2) data on rainfall intensity and runoff for the event and on accumulated depth of rainfall and runoff; (3) description of watershed conditions at the time of the selected events; and (4) plottings of runoff hydrographs and rainfall histograms.

For newly established watersheds, descriptions of watershed physical characteristics, instrumentation, land management, and recommended area of application of the results are given as well as graphs and maps.

The first 11 publications in this series resulted from the cooperative efforts of several former ARS watershed research projects and the editing staff in Beltsville, Md. Hydrologic data were summarized, arranged according to standardized formats, recorded on preprinted data sheets, and submitted to the editing office for final review, assemblage, and publication.

A computer-oriented system has been designed and developed by the Water Data Laboratory to produce camera copy sheets for these publications. This is the fifth publication that has been compiled using the computerized system. Hydrologic data submitted from research projects, in digital form and recorded by computer, are accepted by the system. The required data analyses and summaries are performed and the tables and plottings are provided within and by the system. Narrative information is incorporated into the system as upper and lower case alphabetic data using computer-compatible word-processing equipment. The format of hand-compiled references (4-11) has been retained where practicable in the computer-compiled versions of the publications.

PUBLICATIONS OF EARLIER DATA

Historical hydrologic data on the experimental agricultural watersheds, both terminated and active, have been previously summarized in three looseleaf publications (reprints in bound volumes) by the former Agricultural Research Service. They are

described in the following three reference summaries. Beginning with the hydrologic data for 1956 through 1972, the types of data previously published separately in these three references are combined in U.S. Department of Agriculture Miscellaneous Publications 945, 994, 1070, 1164, 1194, 1216, 1226, 1262, 1330, 1370, 1380, 1383, and 1412. These 13 publications are listed in table 1 as references 4-16. These reference numbers have been assigned to simplify citations to them in this and future publications. The first three looseleaf and the first eight miscellaneous publications have been recorded on 16-mm microfilm. Copies can be made available for the cost of the film processing.

Reference 1.--"Monthly Precipitation and Runoff for Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Branch, 691 pages, 1957. Includes physical descriptions and land use of 334 experimental agricultural watersheds at 60 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1955.

Reference 2.--"Annual Maximum Flows From Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Division, 330 pages, 1958. Includes records from 322 watersheds at 59 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1957.

Reference 3.--"Selected Runoff Events for Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Division, 374 pages, 1960. Includes a sampling of 1 to 6 typical runoff events from 68 watersheds at 40 locations in 25 States from 1933 through 1959. The publication has maps of each watershed, information on watershed conditions for each event, including the 30-day antecedent rainfall and runoff, and tabular as well as graphic data on each storm.

Copies of all these publications have been furnished to the Soil Conservation Service and other Federal, State, and local government agencies. They have also been distributed to State agricultural experiment stations, university libraries and engineering departments, private engineers and individuals when requested, and similar foreign institutions and individuals when requested.

Table 2 lists in which of the 16 references data are included for each watershed.

Table 3 summarizes where data for each watershed can be found in this 16th publication.

Table 4 lists the watershed units where studies were discontinued in 1971.

FORM OF DATA PRESENTATION

The data in this publication are presented for each watershed in the following order: (1) Watershed description, if not previously published; (2) monthly precipitation and runoff; (3) average monthly precipitation and runoff for period of record; (4) annual maximum flows; (5) daily temperature extremes for some watersheds, daily precipitation, and discharge; (6) selected runoff events; (7) graphs of selected runoff events; and (8) watershed maps, if not previously published or if revised.

Table 1.--Description of references 4-16 of "Hydrologic Data for Experimental Agricultural Watersheds in the United States"

Reference	For calendar year (19--)	Miscellaneous Publication No.	Year published (19--)	Total pages	Number of watersheds for which indicated data are given			
					Monthly precipitation and runoff	Annual maximum discharge and runoff for selected time intervals	Selected runoff events	New water-sheds
								Daily precipitation, discharge, and/or temperature (max.-min.)
4....	56-59	945	63	672	157	142	134	45
5....	60-61	994	65	496	160	145	133	24
6....	62	1070	68	447	164	155	136	13
7....	63	1164	70	465	168	156	142	9
8....	64	1194	71	460	163	163	143	8
9....	65	1216	72	568	189	178	122	57
10....	66	1226	72	399	198	185	106	60
11....	67	1262	73	634	216	204	174	62
12....	68	1330	76	542	174	174	116	174
13....	69	1370	79	602	167	150	139	1
14....	70	1380	79	516	153	139	113	5
15....	71	1383	80	509	145	135	122	2
16....	72	1412	81	433	131	117	98	145
								131

Table 2.--Index to information on experimental agricultural watersheds included in references 1-161/

Water-shed ident. code	Study location		Water-shed name-No.	Area in acres 2/	Record Rev. (19--) ref.			Index to information in reference1/--															
	Town	State			B 3/	E 4/	No. 4/	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
01001	Arnot Forest	NY	W-1	17.9	41	47		01	02														
01002	Arnot Forest	NY	W-4	17.9	41	47		01	02														
02002	Cohocton	NY	W-II	13.8	38	45		01	02	03													
02003	Cohocton	NY	W-III	24.2	38	45		01	02	03													
04001	Freehold	NJ	W-I	17.5	38	43		01	02	03													
04002	Freehold	NJ	W-II	32.9	38	55		01	02	03													
04003	Freehold	NJ	W-III	51.8	38	43		01	02														
05001	College Park	MD	W-1	8.22	39	54		01	02	03													
05002	College Park	MD	W-2	7.44	39	54		01	02	03													
05003	College Park	MD	W-3	5.02	39	55		01	02														
05004	College Park	MD	W-4	5.03	39	55		01	02														
05005	College Park	MD	W-5	4.07	39	54		01	02														
05006	College Park	MD	W-6	3.53	40	62	06	01	02	03	04	05	06										
05007	College Park	MD	W-7	3.52	40	62	06	01	02	03	04	05	06										
05008	College Park	MD	W-8	2.43	40	55		01	02	03													
05009	College Park	MD	W-9	12.05	40	55		01	02	03													
05010	College Park	MD	W-10	3.04	43	54		01	02														
06001	Hagerstown	MD	W-I	46.3	38	47		01	02														
06002	Hagerstown	MD	W-II	80.8	38	47		01	02	03													
07001	Auburn	AL	W-I	27.0	45	47		01	02														
08001	Vero Beach	FL	W-1	49,915.	51	73	06	01	02	03	04	05	06	07	08	09	10	11					
08002	Vero Beach	FL	W-2	(a)66,880.	55		06	01	02		04	05	06	07	08	09	10	11		13	14	15	16
08003	Vero Beach	FL	W-3	(b)12,224.	55		06	01	02		04	05	06	07	08	09	10	11		13	14	15	16
08004	Vero Beach	FL	W-4	3,970.	59	73																	
08005	Vero Beach	FL	W-5	(c)20,992.	65	15							06	07	08	09	10	11				15	16
09001	Americus	GA	W-I	22.8	38	43		01	02														
09002	Americus	GA	W-II	42.8	38	42		01	02														
09003	Americus	GA	W-III	32.0	38	42		01	02														
09004	Americus	GA	W-IV	59.2	38	43		01	02	03													
10001	Watkinsville	GA	W-1	19.2	39		07	01	02		04	05	06	07	08				12	13	14	15	16
11001	High Point	NC	W.F.D.R.	21,100.	23	53		01	02	03	04												
11002	High Point	NC	M.C.	10,300.	34	41		01	02		04												
11003	High Point	NC	U.R.	7,230.	34	41		01	02		04												
12001	Statesville	NC	C-8	5.12	33	38		01	02														
12002	Statesville	NC	W-23	6.00	33	38		01	02														
13001	Blacksburg	VA	W-II	5.44	39	51		01	02														
13002	Blacksburg	VA	W-III	19.3	39	67		01	02	03	04	05	06	07	08	09	10	11					
13003	Blacksburg	VA	W-IV	3.49	51	67		01	02		04	05	06	07	08	09	10	11					
13004	Blacksburg	VA	W-V	6.08	52	67		01	02		04	05	06	07	08	09	10	11					
13005	Blacksburg	VA	W-VI	7.70	51	67		01	02		04	05	06	07	08	09	10	11					
13006	Blacksburg	VA	T.C.	3,054.	57	69					04	05	06	07	08	09	10	11	12				
13007	Blacksburg	VA	C.C.	786.	57						05	06	07	08	09	10	11	12	13	14	15	16	
13008	Blacksburg	VA	B.C.	893.	57		08			04	05	06	07	08	09	10	11	12	13	14	15	16	
13009	Blacksburg	VA	P.C.	182.	58	69	08				05	06	07	08	09	10	11	12					
13010	Blacksburg	VA	L.W.C.	1,471.	58	74	08				05	06	07	08	09	10	11	12	13	14	15	16	
13011	Blacksburg	VA	R.R.B.	555.	58		08				05	06	07	08	09	10	11	12	13	14	15	16	
13012	Blacksburg	VA	P.M.B.	192.	58	69	08				05	06	07	08	09	10	11	12					
13013	Blacksburg	VA	C.R.	2,023.	59	69	10				05	06	07	08	09	10	11	12					
13014	Blacksburg	VA	F.C.	389.	60	69	08				05	06	07	08	09	10	11	12					
13015	Blacksburg	VA	C.B.	1,058.	60		08				05	06	07	08	09	10	11	12	13	14	15	16	
14001	Chatham	VA	W-I	13.3	38	48		01	02														
14002	Chatham	VA	W-II	16.1	38	48		01	02														
14003	Chatham	VA	W-III	17.1	38	48		01	02	03													

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-161/--
Continued

Water-shed ident. code	Study location		Water-shed name-No.	Area in acres 2/	Record (19--) B 3/	Rev. E 4/	ref. No.	Index to information in reference1/--													
	Town	State						01	02	03	04	05	06	07	08	09	10	11	12	13	14
15001	Staunton	VA	W-I	390.	48	55		01	02	03											
15002	Staunton	VA	W-II	2,430.	48	55		01	02												
15003	Staunton	VA	W-III	6,144.	48	55		01	02		04										
16006	Klingerstown	PA	WE-38	1,773.	68												12	13	14	15	16
17001	Edwardsville	IL	W-1	27.22	38	55		01	02	03											
17002	Edwardsville	IL	W-2	49.95	38	55		01	02												
17003	Edwardsville	IL	W-3	12.55	38	42		01	02												
17004	Edwardsville	IL	W-4	289.8	38	55		01	02	03											
18001	Elmwood	IL	WB-1	1.28	45	46		01													
18002	Elmwood	IL	WB-2	2.28	45	46		01													
18003	Elmwood	IL	WB-3	2.61	45	46		01													
18004	Elmwood	IL	WB-4	2.77	45	46		01													
18005	Elmwood	IL	WB-5	1.93	45	46		01													
18006	Elmwood	IL	WB-6	2.41	45	46		01													
18007	Elmwood	IL	WT-1	2.02	45	46		01													
18008	Elmwood	IL	WT-2	1.88	45	46		01													
18009	Elmwood	IL	WT-3	2.40	45	46		01													
18010	Elmwood	IL	WT-4	2.06	45	46		01													
18011	Elmwood	IL	WT-5	2.76	45	46		01													
18012	Elmwood	IL	WT-6	5.35	45	46		01													
19001	Lafayette	IN	W-1	2.55	40	53		01	02												
19002	Lafayette	IN	W-2	2.23	40	53		01	02												
19003	Lafayette	IN	W-4	2.01	40	53		01	02												
19004	Lafayette	IN	W-5	2.87	40	53		01	02	03											
19005	Lafayette	IN	W-6	2.79	40	53		01	02	03											
19006	Lafayette	IN	W-7	1.96	40	53		01	02												
19007	Lafayette	IN	W-8	1.96	40	53		01	02												
19008	Lafayette	IN	W-10	2.06	40	53		01	02												
19009	Lafayette	IN	W-11	2.05	40	53		01	02												
19010	Lafayette	IN	W-12	3.37	40	53		01	02												
19011	Lafayette	IN	W-13	3.02	40	53		01	02												
19012	Lafayette	IN	W-14	2.85	40	53		01	02												
19013	Lafayette	IN	W-15	3.59	40	53		01	02												
19014	Lafayette	IN	W-18	3.24	40	53		01	02												
19015	Lafayette	IN	W-20	2.64	40	52		01	02												
19016	Lafayette	IN	W-25	3.52	40	52		01	02												
19017	Lafayette	IN	W-31	1.64	40	51		01	02												
19018	Lafayette	IN	W-32	1.83	40	51		01	02												
19019	Lafayette	IN	W-33	3.44	40	51		01	02												
19020	Lafayette	IN	W-34	3.17	40	51		01	02												
20001	Clarinda	IA	W-V	3.25	32	42		01	02												
20002	Clarinda	IA	W-W	1.97	34	42		01	02												
20003	Clarinda	IA	W-X	1.97	34	42		01	02												
20004	Clarinda	IA	W-Y	3.25	32	42		01	02												
20005	Clarinda	IA	W-Z	3.12	32	42		01	02												
21001	Iowa City	IA		1,930.	24		07	01	02	03	04	05	06	07	08	09	10	11	12		
22001	Shenandoah	IA	No. 1	128,000.	34	40		01	02												
22002	Shenandoah	IA	No. 2	67,200.	34	40		01	02												
23001	East Lansing	MI	A	1.98	41	59		01	02		04										
23002	East Lansing	MI	B	1.35	41	59		01	02		04										
23003	East Lansing	MI	W	1.65	41	59		01	02		04										
24001	Bethany	MO	Pa-A	2.03	34	42		01	02												
24002	Bethany	MO	Pa-B	5.56	32	42		01	02												
24003	Bethany	MO	Pa-C	1.97	37	42		01	02												
24004	Bethany	MO	D-1	7.51	34	42		01	02												
24005	Bethany	MO	D-2	8.03	34	42		01	02												
24006	Bethany	MO	D-3	4.48	32	42		01	02	03											
24007	Bethany	MO	1-58	2.12	33	42		01	02												
24008	Bethany	MO	IJ-1	2.13	33	42		01	02												

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-161/--
Continued

Watershed ident. code	Study location		Watershed name-No.	Area in acres ±	Record (19--) B 3/	Rev. ref. No. 4/	Index to information in reference1--															
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
25001	McCredie	MO	S.R.W.	154.	41	07	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16
25002	McCredie		No.2	44.3	51 63	07	01	02		04	05	06	07									
26001	Coshocton	OH	102	1.26	37	06	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16
26002	Coshocton	OH	104	1.33	37 46		01	02		04												
26003	Coshocton	OH	129	2.71	38 71	06	01	02		04	05	06	07	08	09	10	11	12	13	14	15	
26004	Coshocton	OH	135	2.69	38 69	06	01	02		04	05	06	07	08	09	10	11	12	13			
26005	Coshocton	OH	130	1.63	38 71	06	01	02		04	05	06	07	08	09	10	11	12	13	14		
26006	Coshocton	OH	107	2.59	38 46		01	02		04												
26007	Coshocton	OH	131	2.21	38 69	06	01	02		04	05	06	07	08	09	10	11	12	13			
26008	Coshocton	OH	132	0.62	48 69	06	01	02		04	05	06	07	08	09	10	11	12	13			
26009	Coshocton	OH	134	0.92	38 46		01	02		04												
26010	Coshocton	OH	123	1.37	39	06	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16
26011	Coshocton	OH	115	1.61	39 70	06	01	02		04	05	06	07	08	09	10	11	12	13			
26012	Coshocton	OH	127	1.65	49 70	06	01	02		04	05	06	07	08	09	10	11	12	13			
26013	Coshocton	OH	109	1.69	38	06	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16
26014	Coshocton	OH	103	0.65	39	06	01	02		04	05	06	07	08	09	10	11	12	13			
26015	Coshocton	OH	110	1.27	39	06	01	02		04	05	06	07	08	09	10	11	12	13			
26016	Coshocton	OH	113	1.45	39 76	06	01	02		04	05	06	07	08	09	10	11	12	13			
26017	Coshocton	OH	118	1.96	40 76	06	01	02		04	05	06	07	08	09	10	11	12	13			
26018	Coshocton	OH	111	1.18	39 70	06	01	02		04	05	06	07	08	09	10	11	12	13			
26019	Coshocton	OH	121	1.42	39	06	01	02		04	05	06	07	08	09	10	11	12	13			
26020	Coshocton	OH	106	1.56	39 72	06	01	02		04	05	06	07	08	09	10	11	12	13	14	15	
26021	Coshocton	OH	188	2.05	39 70	06	01	02		04	05	06	07	08	09	10	11	12	13			
26022	Coshocton	OH	124	2.07	39 47		01	02		04												
26023	Coshocton	OH	185	7.40	39 72	06	01	02		04	05	06	07	08	09	10	11	12	13	14		
26024	Coshocton	OH	187	7.20	41 72	06	01	02		04	05	06	07	08	09	10	11	12	13	14		
26025	Coshocton	OH	192	7.59	39	06	01	02		04	05	06	07	08	09	10	11	12	13			
26026	Coshocton	OH	172	43.6	39 72	06	01	02		04	05	06	07	08	09	10	11					
26027	Coshocton	OH	169	29.0	40 71	06	01	02		04	05	06	07	08	09	10	11	12	13			
26028	Coshocton	OH	177	75.6	40 71	06	01	02		04	05	06	07	08	09	10	11	12	13			
26029	Coshocton	OH	183	74.2	38 63	06	01	02	03	04	05	06	07									
26030	Coshocton	OH	196	303.	37	06	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
26031	Coshocton	OH	10	122.	39 71	06	01	02		04	05	06	07	08	09	10	11	12	13	14		
26032	Coshocton	OH	5	349.	40 71	06	01	02		04	05	06	07	08	09	10	11	12	13	14		
26033	Coshocton	OH	92	920.	39 71	06	01	02		04	05	06	07	08	09	10	11	12	13	14		
26034	Coshocton	OH	94	1,520.	39 71	06	01	02		04	05	06	07	08	09	10	11	12	13	14		
26035	Coshocton	OH	95	2,570.	39 72	06	01	02		04	05	06	07	08	09	10	11	12	13	14	15	
26036	Coshocton	OH	97	4,580.	37 70	06	01	02	03	04	05	06	07	08	09	10	11	12	13	14		
26037	Coshocton	OH	994	17,400.	36	06	01	02		04	05	06	07	08	09	10	11					
26038	Coshocton	OH	174	52.8	60 77	06				05	06	07	08	09	10	11	12	13	14	15	16	
26039	Coshocton	OH	194	187.	60 77	06				05	06	07	08	09	10	11	12	13	14	15	16	
26040	Coshocton	OH	182	69.6	64											10	11	12	13	14		
26041	Coshocton	OH	166	79.2	67															13	14	15
27001	Hamilton	OH	W-1	187.	38 44		01	02	03													
27002	Hamilton	OH	W-II	16.2	38 44		01	02														
27003	Hamilton	OH	W-III	28.8	38 44		01	02														
27004	Hamilton	OH	W-IV	20.3	38 44		01	02														
28001	Zanesville	OH	C.W.	2.55	34 45		01	02														
28002	Zanesville	OH	P.W.	3.57	34 45		01	02														
28003	Zanesville	OH	W.W.	2.23	34 45		01	02														
29001	Colby	WI	W-1	345.	49 66		01	02	03	04	05	06	07	08	09	10						
30001	Coon Valley	WI	No. 1	49,400.	34 40		01	02														
30002	Coon Valley	WI	No. 2	49,344.	34 40		01	02														
31001	Fennimore	WI	W-1	330.	38 69	07	01	02	03	04	05	06	07	08	09	10	11					
31002	Fennimore	WI	W-2	22.8	38 68	07	01	02	03	04	05	06	07	08	09	10	11					
31003	Fennimore	WI	W-3	52.5	38 69	07	01	02		04	05	06	07	08	09	10	11					
31004	Fennimore	WI	W-4	171.	38 68	07	01	02	03	04	05	06	07	08	09	10	11					

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-161/--
Continued

Watershed ident. code	Study location		Watershed name-No.	Area in acres	Record (19--)	Rev. B E No.	Ref. No.	Index to information in reference1/--																			
	Town	State						01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16				
32001	La Crosse	WI	U.P.W.	2.41	33	55		01	02																		
32002	La Crosse	WI	U.C.W.	2.24	33	46		01	02																		
32003	La Crosse	WI	C.W.	2.71	37	63	07	01	02			04	05	06	07												
32004	La Crosse	WI	C.W.A.	2.95	52	63	07	01	02			04	05	06	07												
32005	La Crosse	WI	E-3	1.01	33	42		01	02																		
32006	La Crosse	WI	A-4	2.21	33	54		01	02																		
33001	Bentonville	AR	W-1	10.03	38	43		01	02																		
33002	Bentonville	AR	W-2	9.34	38	47		01	02																		
33003	Bentonville	AR	W-3	14.25	38	47		01	02																		
33004	Bentonville	AR	W-4	24.	39	47		01	02																		
33005	Bentonville	AR	W-5	19.4	38	47		01	02	03																	
33006	Bentonville	AR	W-6	10.75	39	47		01	02																		
34001	Cherokee	OK	W-1	2.23	42	60		01	02			04															
34002	Cherokee	OK	W-2	4.82	42	60		01	02			04															
34003	Cherokee	OK	W-3	8.04	42	60		01	02			04															
34004	Cherokee	OK	W-4	4.35	42	60		01	02			04															
34005	Cherokee	OK	W-5	7.85	42	60		01	02			04															
34006	Cherokee	OK	W-6	1.75	42	60		01	02			04															
34007	Cherokee	OK	W-7	1.99	42	60		01	02			04															
34008	Cherokee	OK	W-8	4.72	41	60		01	02			04															
34009	Cherokee	OK	W-9	8.50	42	60		01	02	03	04																
34010	Cherokee	OK	W-10	1.68	60	67										05	06	07	08	09	10	11					
34011	Cherokee	OK	W-11	2.12	60	67										05	06	07	08	09	10	11					
34012	Cherokee	OK	W-12	1.68	60	67										05	06	07	08	09	10	11					
34013	Cherokee	OK	W-13	1.99	60	67										05	06	07	08	09	10	11					
34014	Cherokee	OK	W-14	2.16	60	67										05	06	07	08	09	10	11					
34015	Cherokee	OK	W-15	2.15	60	67										05	06	07	08	09	10	11					
35001	Guthrie	OK	W-1	33.40	32	53		01	02																		
35002	Guthrie	OK	W-2	3.21	31	51		01	02																		
35003	Guthrie	OK	W-3	3.13	30	51		01	02																		
35004	Guthrie	OK	W-4	5.62	31	53		01	02																		
35005	Guthrie	OK	W-5	5.28	31	47		01	02																		
35006	Guthrie	OK	W-I	2.50	37	53		01	02																		
35007	Guthrie	OK	W-II	5.09	42	55		01	02																		
35008	Guthrie	OK	W-III	9.09	42	53		01	02																		
35009	Guthrie	OK	W-IV	13.4	42	53		01	02																		
35010	Guthrie	OK	W-V	15.7	42	53		01	02																		
35011	Guthrie	OK	W-VI	94.8	42	55		01	02	03																	
36001	Muskogee	OK	W-I	14.5	39	47		01	02																		
36002	Muskogee	OK	W-II	65.4	39	45		01	02																		
36003	Muskogee	OK	W-IV	24.9	38	47		01	02																		
37001	Stillwater	OK	W-1	16.7	51		05	01	02			04	05	06	07	08	09	10	11	12	13	14	15	16			
37002	Stillwater	OK	W-3	92.	51	72		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16				
37003	Stillwater	OK	W-4	206.	51			01	02			04	05	06	07	08	09	10	11	12	13	14	15	16			
38001	Garland	TX	W-I	25.	38	47		01	02																		
38002	Garland	TX	W-III	10.4	38	47		01	02																		
38003	Garland	TX	W-IV	16.2	39	47		01	02																		
39001	Spur	TX	W-1	11.53	27	45		01	02																		
39002	Spur	TX	W-2	9.39	27	45		01	02																		
39003	Spur	TX	W-3	11.71	27	44		01	02																		
39004	Spur	TX	W-5	5.81	27	45		01	02																		
39005	Spur	TX	W-6	5.32	27	45		01	02																		
39006	Spur	TX	W-11	8.70	30	45		01	02																		
39007	Spur	TX	W-12	8.41	30	45		01	02																		
39008	Spur	TX	W-14	8.53	30	45		01	02																		
39009	Spur	TX	W-15	8.50	30	45		01	02																		
40001	Tyler	TX	W-2	9.15	43	44		01	02	03																	
40002	Tyler	TX	W-3	7.94	32	42		01	02																		
40003	Tyler	TX	W-4	6.05	31	42		01	02																		
40004	Tyler	TX	W-5	1.57	32	42		01	02																		

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-161/--
Continued

Water- shed ident. code	Study location		Water- shed name-No.	Area in acres 2/	Record (19--) B E 3/ 4/	Rev. ref. 4/	Index to information in reference1/--																	
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16		
41001	Vega	TX	W-1	129.	38	43	01	02																
41002	Vega	TX	W-2	95.9	38	43	01	02	03															
42001	Riesel	TX	A	42.	38	43	01	02																
42002	Riesel	TX	C	579.	38		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42003	Riesel	TX	D	1,110.	37		08	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
42004	Riesel	TX	G	4,380.	38		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42005	Riesel	TX	J	5,860.	37	43	01	02	03															
42006	Riesel	TX	W-1	174.	37		08	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
42007	Riesel	TX	W-2	130.	37		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42008	Riesel	TX	W-6	42.3	39		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42009	Riesel	TX	W-8	40.4	38	43	01	02																
42010	Riesel	TX	W-10	19.7	38		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42011	Riesel	TX	Y	309.	37		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42012	Riesel	TX	Y-2	132.	39		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42013	Riesel	TX	Y-4	79.9	39		08	01	02		04	05	06	07	08	09	10	11	12					
42014	Riesel	TX	Y-6	16.3	39		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42015	Riesel	TX	Y-7	40.	39		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42016	Riesel	TX	Y-8	20.8	39		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42017	Riesel	TX	Y-10	18.6	38		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42018	Riesel	TX	SW-2	2.7	38	43	01	02																
42019	Riesel	TX	SW-3	3.09	39	43	01	02																
42020	Riesel	TX	SW-5	3.09	38	43	01	02																
42021	Riesel	TX	SW-6	3.04	38	43	01	02																
42022	Riesel	TX	SW-7	3.15	38	43	01	02																
42023	Riesel	TX	SW-11	2.66	38		01	02												13	14	15	16	
42024	Riesel	TX	SW-12	2.90	38		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42025	Riesel	TX	SW-13	3.19	38	43	01	02																
42026	Riesel	TX	SW-14	3.02	39	43	01	02																
42027	Riesel	TX	SW-16	3.17	37	43	01	02																
42028	Riesel	TX	SW-17	2.99	39		08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
42029	Riesel	TX	SW-18	3.04	38	43	01	02																
42030	Riesel	TX	Z	310.	39	43	01	02																
42031	Riesel	TX	P-1	.24	38	68	08				05	06	07	08	09	10	11	12						
42032	Riesel	TX	P-2	.24	38	68	08				05	06	07	08	09	10	11	12						
42033	Riesel	TX	P-3	.24	38	68	08				05	06	07	08	09	10	11	12						
42034	Riesel	TX	P-4	.24	38	68	08				05	06	07	08	09	10	11	12						
42035	Riesel	TX	SW-19	3.25	70																14	15	16	
42036	Riesel	TX	SW-20	3.21	70																	14	15	16
42037	Riesel	TX	Y-13	11.3	69																13	14	15	16
42038	Riesel	TX	Y-14	5.6	69																13	14	15	16
42039	Riesel	TX	W-12	9.9	69																13	14	15	16
42040	Riesel	TX	W-13	11.3	69																13	14	15	16
43001	Hays	KS	6L	2.85	34	38	01	02																
43002	Hays	KS	AG	1.61	32	47	01	02																
44001	Hastings	NE	W-3	481.	38	67	06	01	02	03	04	05	06	07	08	09	10	11						
44002	Hastings	NE	W-5	411.	39	67	01	02			04	05												
44003	Hastings	NE	W-8	2,086.	39	67	06	01	02	03	04	05	06	07	08	09	10	11						
44004	Hastings	NE	W-11	3,490.	39	67	06	01	02		04	05	06	07	08	09	10	11						
44005	Hastings	NE	1-H	3.62	39	67	06	01	02		04	05	06	07	08	09	10	11						
44006	Hastings	NE	2-H	3.40	39	67	06	01	02		04	05	06	07	08	09	10	11						
44007	Hastings	NE	3-H	3.77	39	67	06	01	02		04	05	06	07	08	09	10	11						
44008	Hastings	NE	4-H	3.64	39	67	06	01	02		04	05	06	07	08	09	10	11						
44009	Hastings	NE	5-H	4.02	39	67	06	01	02		04	05	06	07	08	09	10	11						
44010	Hastings	NE	6-H	4.01	39	67	06	01	02		04	05	06	07	08	09	10	11						
44011	Hastings	NE	7-H	4.26	39	67	06	01	02		04	05	06	07	08	09	10	11						
44012	Hastings	NE	8-H	3.97	39	67	06	01	02		04	05	06	07	08	09	10	11						
44013	Hastings	NE	9-H	3.78	39	54	01	02																
44014	Hastings	NE	10-H	3.98	39	54	01	02																
44015	Hastings	NE	11-H	3.85	39	54	01	02																

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Table 2.--Index to information on experimental agricultural watersheds included in references 1-161/--
Continued

Water-shed ident. code	Study location		Water-shed name-No.	Area in acres 2/	Record (19--) B 3/	Rev. E 4/	Ref. No. 4/	Index to information in reference1/--															
	Town	State						01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
44016	Hastings	NE	12-H	3.66	39	54		01	02														
44017	Hastings	NE	13-H	3.41	39	54		01	02														
44018	Hastings	NE	14-H	3.35	39	54		01	02														
44019	Hastings	NE	15-H	3.62	39	54		01	02														
44020	Hastings	NE	16-H	3.57	39	54		01	02														
44021	Hastings	NE	17-H	3.96	39	54		01	02														
44022	Hastings	NE	18-H	3.74	39	67	06	01	02		04	05	06	07	08	09	10	11					
44023	Hastings	NE	19-H	4.10	41	54		01	02														
44024	Hastings	NE	20-H	4.05	41	54		01	02														
44025	Hastings	NE	21-H	3.94	41	54		01	02														
44026	Hastings	NE	22-H	3.83	41	67	06	01	02					06	07	08	09	10	11				
44027	Hastings	NE	23-H	4.20	41	67		01	02					06	07	08	09	10	11				
44028	Hastings	NE	24-H	4.21	41	54		01	02														
44029	Hastings	NE	25-H	2.24	63	67									07	08	09	10	11				
45001	Safford	AZ	W-I	519.	39	76	07	01	02		04	05	06	07	08	09	10	11					
45002	Safford	AZ	W-II	682.	39	76	08	01	02	03	04	05	06		08	09	10	11					
45003	Safford	AZ	W-IV	764.	39	76		01	02		04	05	06		08	09	10	11					
45004	Safford	AZ	W-V	723.	39	76	07	01	02		04	05	06	07	08	09	10	11					
46001	Colorado Spr.	CO	W-1	10.6	38	46		01	02														
46002	Colorado Spr.	CO	W-2	39.7	38	46		01	02														
46003	Colorado Spr.	CO	W-3	35.4	38	46		01	02														
46004	Colorado Spr.	CO	W-4	35.6	38	46		01	02	03													
47001	Albuquerque	NM	W-I	246.	39	76	08	01	02	03	04	05	06		08	09	10	11	12				
47002	Albuquerque	NM	W-II	40.5	39	76	07	01	02		04	05	06	07	08	09	10	11	12				
47003	Albuquerque	NM	W-III	176.	39	76	07	01	02		04	05	06	07	08	09	10	11	12				
48001	Mexican Spr.	NM	W-1	187.	38	42		01	02														
48002	Mexican Spr.	NM	W-2	610.	37	42		01	02	03													
48003	Mexican Spr.	NM	W-3	1,325.	38	42		01	02														
48004	Mexican Spr.	NM	W-6	5,550.	37	42		01	02	03													
48005	Mexican Spr.	NM	W-7	8,495.	38	42		01	02														
48006	Mexican Spr.	NM	W-8	20,910.	37	42		01	02	03													
48007	Mexican Spr.	NM	W-10	17,220.	37	42		01	02														
48008	Mexican Spr.	NM	W-11	46,080.	37	39		01	02	03													
48009	Mexican Spr.	NM	W-12	2,550.	37	39		01	02														
48010	Mexican Spr.	NM	W-13	3,360.	37	39		01	02														
48011	Mexican Spr.	NM	W-14	3,560.	37	38		01	02														
48012	Mexican Spr.	NM	W-15	4,740.	37	39		01	02														
49001	Santa Fe	NM	W-I	141.	39	48		01	02	03													
49002	Santa Fe	NM	W-II	790.	39	48		01	02														
49003	Santa Fe	NM	W-III	51.6	39	48		01	02														
50001	Placerville	CA	W-1	41.	35	44		01	02	03													
51001	Santa Paula	CA	W-1	413.	38	42		01	02														
51002	Santa Paula	CA	W-3	106.	38	42		01	02														
51003	Santa Paula	CA	W-4	44.4	38	42		01	02														
51004	Santa Paula	CA	W-5	55.1	38	42		01	02														
51005	Santa Paula	CA	W-6	163.	38	42		01	02														
51006	Santa Paula	CA	H.B.R.	735.	36	42		01	02														
51007	Santa Paula	CA	L.A.	1,607.	34	40		01	02														
51008	Santa Paula	CA	H.P.R.	1,832.	34	43		01	02														
51009	Santa Paula	CA	H.A.B.	5,939.	34	37		01	02														
52001	Sebastopol	CA	W-1	83.	36	43		01	02	03													
52002	Sebastopol	CA	W-2	56.	36	40		01	02														
53001	Vacaville	CA	W-I	40.	37	42		01	02														
54001	Watsonville	CA	W-1	16.8				01	02														
54002	Watsonville	CA	W-2	18.5				01	02														
54003	Watsonville	CA	W-3	27.4	38	42		01	02	03													
54004	Watsonville	CA	W-4	10.1	38	42		01	02														

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Table 2.--Index to information on experimental agricultural watersheds included in references 1-161/--
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Water-shed ident. code	Study location		Water-shed name-No.	Area in acres 2/	Record (19--)		Rev. ref. No. 4/	Index to information in reference 1/--																	
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16		
55001	Emmett		ID W-1	219.4	38	41		01	02																
55002	Emmett		ID W-2	69.4	38	41		01	02	03															
56001	Moscow		ID W-1	146.8	37	42		01	02	03															
56002	Moscow		ID W-2	177.9	37	42		01	02	03															
57001	Newberg		OR W-1	13.2	38	42		01	02	03															
57002	Newberg		OR W-2	21.6	38	42		01	02																
57003	Newberg		OR W-3	12.8	38	42		01	02	03															
57004	Newberg		OR W-4	6.2	38	42		01	02	03															
58001	Dayton		WA W-1	19.2	39	42		01	02																
59001	Pullman		WA S.F.P.R.	51,900.	34	40		01	02																
59002	Pullman		WA M.F.C.	17,600.	34	40		01	02																
59003	Pullman		WA F.M.C.	46,000.	34	40		01	02																
60001	Pullman		WA G.S.2	68.2	31	46		01	02	03															
60002	Pullman		WA G.S.4	2.33	31	38		01	02																
60003	Pullman		WA G.S.5	14.4	32	46		01	02																
60004	Pullman		WA G.S.6	15.2	32	46		01	02																
60005	Pullman		WA G.S.7	16,700.	32	38		01	02																
60006	Pullman		WA G.S.8	762.	34	41		01	02	03															
60007	Pullman		WA G.S.9	879.	41	46		01	02																
60008	Pullman		WA G.S.10	4,430.	41	47		01	02	03															
61001	Monticello		IL IA	82.	49	59		01	02	03	04														
61002	Monticello		IL IB	45.5	49	59		01	02	03	04														
62001	Oxford		MS W-4	2,000.	57	06					03	04	05	06	07	08	09	10	11	12	13	14	15	16	
62002	Oxford		MS W-5	1,000.	57	06					03	04	05	06	07	08	09	10	11	12	13	14	15	16	
62003	Oxford		MS W-10	5,530.	57	06					03	04	05	06	07	08	09	10	11	12	13	14	15	16	
62004	Oxford		MS W-12	22,800.	57	06						04	05	06	07	08	09	10	11	12	13	14	15	16	
62005	Oxford		MS W-17	32,100.	57	06						04	05	06	07	08	09	10	11	12	13	14	15	16	
62006	Oxford		MS W-19	243.	57	64	06					04	05	06	07	08									
62007	Oxford		MS W-24	512.	57	06						04	05	06	07	08	09	10	11	12	13	14	15	16	
62008	Oxford		MS W-28	1,080.	57	06						04	05	06	07	08	09	10	11	12	13	14	15	16	
62009	Oxford		MS W-30	113.	57	59						04													
62010	Oxford		MS W-32	20,000.	57	06						04	05	06	07	08	09	10	11	12	13	14	15	16	
62011	Oxford		MS W-34	75,000.	57	06					03	04	05	06	07	08	09	10	11	12	13		15	16	
62012	Oxford		MS W-35	7,550.	57	77	06					04	05	06	07	08	09	10	11	12	13	14	15	16	
62013	Oxford		MS WC-1	3.88	58	06						04	05	06	07	08	09	10	11						
62014	Oxford		MS WC-2	1.45	58	06						04	05	06	07	08	09	10	11						
62015	Oxford		MS WC-3	1.61	58	06						04	05	06	07	08	09	10	11						
62016	Oxford		MS WP-4	3.01	58	63	06					04	05	06	07										
62017	Oxford		MS W-17A	3,200.	57	06						05	06	07	08	09	10	11	12	13	14	15	16		
62018	Oxford		MS W-35A	1,090.	57	06						05	06	07	08	09	10	11	12	13	14	15	16		
63001	Tombstone		AZ W-1	36,900.	54	74	07					04	05	06	07	08	09	10		12	13	14	15	16	
63002	Tombstone		AZ W-2	28,100.	54	74	07					04	05	06	07	09	10			12	13	14	15	16	
63003	Tombstone		AZ W-3	2,220.	54	74	07					04	05	06	07	09	10	11		12	13	14	15	16	
63004	Tombstone		AZ W-4	560.	54	74	07					04	05	06	07	08	09	10	11		12	13	14	15	16
63005	Tombstone		AZ W-5	5,510.	54	73	07					04	05	06	07										
63006	Tombstone		AZ W-6	23,500.	62	74							07	08	09	10				12	13	14	15	16	
63007	Tombstone		AZ 6307	3,340.	66	74											10	11							
63008	Tombstone		AZ 6308	3,830.	63	74									08	09	10			12	13	14	15	16	
63011	Tombstone		AZ 6311	2,035.	63	74									08	09	10			12	13	14	15	16	
63015	Tombstone		AZ 6315	5,912.	65	74									09	10	11			12	13	14	15	16	
63103	Tombstone		AZ 63103	8.3	65												10	11	12						
63111	Tombstone		AZ 63111	143.	62	68											10	11	12						
64001	Santa Rosa		NM W-1	42,880.	55	79						04	05	06	07	08	09	10		12	13	14	15	16	
65002	Newell		SD W-2	115.	58	73						04	05	06	07	08	09	10	11	12	13	14	15	16	
65003	Newell		SD W-3	90.	58	61						04	05												
65004	Newell		SD W-4	105.	58	61						04	05												
65005	Newell		SD W-5	46.	58	73						04	05	06	07	08	09	10	11	12	13	14	15	16	
65006	Newell		SD W-6	30.	58	61						04	05												

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-161/--
Continued

Water- shed ident. code	Study location		Water- shed name-No.	Area in acres 2/	Record Rev. (19--) ref. B E No. 3/ 4/			Index to information in referenced/--																			
	Town	State						01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16				
65007	Newell	SD	W-7	160.	58	73	05					04	05	06	07	08	09	10	11	12	13	14	15	16			
65008	Newell	SD	W-8	160.	58	61						04	05														
65009	Newell	SD	W-9	815.	58	61						04	05														
65010	Newell	SD	W-10	280.	58	61						04	05														
65011	Newell	SD	W-11	160.	58	61						04	05														
65012	Newell	SD	W-12	90.	58	73	05					04	05	06	07	08	09	10	11	12	13	14	15	16			
65013	Newell	SD	W-13	160.	58	73						04	05	06	07	08	09	10	11	12	13	14	15	16			
65014	Newell	SD	W-14	35.	58	73	05					04	05	06	07	08	09	10	11	12	13	14	15	16			
65015	Newell	SD	W-15	115.	58	73	05					04	05	06	07	08	09	10	11	12	13	14	15	16			
65016	Newell	SD	W-16	13,000.	58	61	05					04	05														
66001	Moorefield	WV	W-1	8.57	58	67	06					04	05	06	07	08	09	10	11								
66002	Moorefield	WV	W-2	9.73	58	67	06					04	05	06	07	08	09	10	11								
66004	Moorefield	WV	W-4	6.32	58	67	06					04	05	06	07	08	09	10	11								
66005	Moorefield	WV	W-5	9.55	58	67	06					04	05	06	07	08	09	10	11								
67001	N. Danville	VT	W-1	10,610.	58	76														11	12	13	14	15	16		
67002	N. Danville	VT	W-2	146.	58	78						04	05	06	07	08				11	12	13	14	15	16		
67003	N. Danville	VT	W-3	2,067.	60							05	06	07	08					11	12	13	14	15	16		
67004	N. Danville	VT	W-4	10,752.	60	74														11	12	13	14	15	16		
67005	N. Danville	VT	W-5	27,469.	60	79										05	06	07	08		11	12	13	14	15	16	
68001	Reynolds	ID	W-1	57,700.	63												07	08	09	10	11	12	13	14	15	16	
68002	Reynolds	ID	W-2	8,990.	65													09	10	11	12	13	14	15	16		
68003	Reynolds	ID	W-3	7,846.	66														10	11	12	13	14	15	16		
68004	Reynolds	ID	W-4	13,453.	67															11	12	13	14	15	16		
68011	Reynolds	ID	W-11	306.	67	78															11	12	13	14	15	16	
68012	Reynolds	ID	W-12	205.	67	77															11	12	13	14	15	16	
68013	Reynolds	ID	W-13	100.	63														10	11	12	13	14	15	16		
68014	Reynolds	ID	W-14	33.	67																11	12	13	14	15	16	
69001	Chickasha	OK	100	2,339,800.	61	79										06	07	08	09	10	11	12	13	14	15	16	
69002	Chickasha	OK	200	(d)2,612,500. (e) 273,000.	61	75										06	07	08	09	10	11	12	13	14	15	16	
69004	Chickasha	OK	400	(d)2,725,760. (e) 112,910.	61	68										06	07	08	09	10							
69005	Chickasha	OK	500	(d)2,769,920. (e) 43,840.	64	78												08	09	10	11	12	13	14	15	16	
69006	Chickasha	OK	600	(d)3,011,800. (e) 243,050.	63	72												07	08	09	10	11	12	13	14		
69007	Chickasha	OK	700	(d)3,061,120. (e) 50,830.	61	78										06	07	08	09	10	11	12	13	14	15	16	
69008	Chickasha	OK	611	4,845.	61	74										06	07	08	09				13	14	15	16	
69009	Chickasha	OK	612	563.	61	74										06	07	08	09	10	11	12	13	14	15	16	
69010	Chickasha	OK	111	16,634.	62	78										06	07	08	09	10	11	12	13	14	15	16	
69011	Chickasha	OK	131	25,660.	62	78										06	07	08	09	10	11	12	13	14	15	16	
69012	Chickasha	OK	411	33,330.	62	74										06	07	08	09	10	11	12	13	14	15	16	
69013	Chickasha	OK	511	38,020.	62	78										06	07	08	09	10	11	12	13	14	15	16	
69014	Chickasha	OK	110	25,020.	63	78										07	08	09	10	11	12	13	14	15	16		
69015	Chickasha	OK	522	132,990.	63											07	08	09	10	11	12	13	14	15	16		
69016	Chickasha	OK	512	22,530.	63	78										07	08	09	10	11	12	13	14	15	16		
69017	Chickasha	OK	621	21,310.	63											07	08	09	10	11	12	13	14	15	16		
69018	Chickasha	OK	121	131,780.	63	74										07	08	09	10	11	12	13	14	15	16		
69019	Chickasha	OK	513	12,314.	65	78													09	10	11	12	13	14	15	16	
69020	Chickasha	OK	514	7,225.	67	78															11						
69021	Chickasha	OK	5141	4,064.	67	78																11					
69022	Chickasha	OK	5142	360.	67	74																11					
69023	Chickasha	OK	5143	485.	67	74																	11				
69024	Chickasha	OK	5144	1,456.	67	78																	11				
69025	Chickasha	OK	5145	253.	67	78																	11				
69026	Chickasha	OK	5146	762.	67	78																	11				
69027	Chickasha	OK	311	15,206.	67	78																11	12	13	14	15	16
69030	Chickasha	OK	C-1	17.8	65	76													09	10	11	12	13	14	15	16	
69031	Chickasha	OK	C-2	32.5	62	75														09	10	11	12	13	14	15	16
69032	Chickasha	OK	C-3	44.3	65	76														09	10	11	12	13	14	15	16
69033	Chickasha	OK	C-4	29.9	65	76														09	10	11	12	13	14	15	16
69034	Chickasha	OK	C-5	12.8	65	76														09	10	11	12	13	14	15	16
69035	Chickasha	OK	C-6	13.0	65	76														09	10	11	12	13	14	15	16
69036	Chickasha	OK	C-7	26.5	65	76														09	10	11	12	13	14	15	16

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-161/--
Continued

Water-shed ident. code	Study location		Water-shed name-No.	Area in acres 2/	Record (19--) B 3/ E 4/	Rev. ref. No.	Index to information in reference1/--																	
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16		
69037	Chickasha	OK	C-8	27.3	65	76										09	10	11	12	13	14	15	16	
69038	Chickasha	OK	R-1	17.8	62	74										09	10	11	12	13	14	15	16	
69039	Chickasha	OK	R-2	24.1	62	74										09	10	11	12	13	14	15	16	
69040	Chickasha	OK	R-3	25.8	62	74										09	10	11	12	13	14	15	16	
69041	Chickasha	OK	R-4	18.1	62	74										09	10	11	12	13	14	15	16	
69042	Chickasha	OK	R-5	23.7	66	78										10	11	12	13	14	15	16		
69043	Chickasha	OK	R-6	27.2	66	78										10	11	12	13	14	15	16		
69044	Chickasha	OK	R-7	19.2	66	78										10	11	12	13	14	15	16		
69045	Chickasha	OK	R-8	27.6	66	78										10	11	12	13	14	15	16		
70001	Sonora	TX	W-14	30,720.	61	73											11	12	13	14	15	16		
70002	Sonora	TX	S-9	1,774.	61	73											11	12	13	14	15	16		
70003	Sonora	TX	S-10	5,392.	61	73											11	12	13	14	15	16		
70004	Sonora	TX	S-11	10,787.	61	73											11	12	13	14	15	16		
70005	Sonora	TX	S-12	2,801.	61	73											11	12	13	14	15			
70006	Sonora	TX	S-13	686.	61	73											11	12	13	14	15	16		
70007	Sonora	TX	W-1	10.2	63	75											11	12	13	14	15	16		
70008	Sonora	TX	W-2	8.6	65	75											11	12	13	14	15	16		
70009	Sonora	TX	W-3	6.7	65	75											11	12	13	14	15	16		
70010	Sonora	TX	W-4	4.5	66	75											11	12	13	14	15	16		
70011	Sonora	TX	W-5	7.2	66	75											11	12	13	14	15	16		
70012	Sonora	TX	W-6	6.9	66	75											11	12	13	14	15	16		
70013	Sonora	TX	W-7	12.2	65	73											11	12	13	14	15	16		
71001	Treynor	IA	W-1	74.5	64											08	09	10	11	12	13	14	15	16
71002	Treynor	IA	W-2	82.8	64											08	09	10	11	12	13	14	15	16
71003	Treynor	IA	W-3	107.	64											08	09	10	11	12	13	14	15	16
71004	Treynor	IA	W-4	150.	64											08	09	10	11	12	13	14	15	16
71005	Treynor	IA	W-5	389.	63	73										08	09	10	11	12	13	14	15	
72001	Cottonwood	SD	H-2	2.13	63	73										09	10	11	12	13	14	15	16	
72002	Cottonwood	SD	L-2	2.38	63	73										09	10	11	12	13	14	15	16	
72005	Cottonwood	SD	M-1	2.35	63	73										09	10	11	12	13	14	15	16	
73002	Fort Staunton	NM	7302	32.2	66												10							
75001	Ahoskie	NC	W-A1	36,480.	64	74										09	10	11	12	13	14	15	16	
75002	Ahoskie	NC	W-A2	15,360.	64	74										09	10	11	12	13	14	15	16	
75003	Ahoskie	NC	W-A3	2,368.	64	74										09	10	11	12	13	14	15	16	
75004	Ahoskie	NC	W-A4	1,664.	64	74										09	10	11	12	13	14	15	16	

1/ For description of references 1-16, see page 1 and table 1.

2/ (a) area changed from 63,170 acres (1-1-1967).

(b) area changed from 10,050 acres (1-1-1967).

(c) area changed from 22,656 acres (1-1-1967).

(d) = total drainage area.

(e) = total study area.

3/ B = year (19--) record began; E = year (19--) record ended.

4/ Reference in which additional or revised watershed information has been included.

For current watersheds for which the descriptive information has been published in references 1 and 4-16, the tabular data begin at the top of the first page. On each page at the top center is a sequential page number and the decimal paging system is shown at the bottom.

The geographic location associated with each study, usually a city and State, and the local name and number of the watershed are recorded at the top of the first page for each watershed. This identification is followed by detailed information on the geographic location, including latitude and longitude when available, and the size of the watershed.

In the space to the right of the first table title, MONTHLY PRECIPITATION AND RUNOFF (inches), the location and watershed number (or designation) are given.

In the table for the current calendar year, the precipitation (P) in inches is given in the monthly columns and the yearly total in the last column, headed annual. In the line below, the corresponding runoff (Q) in inches is similarly given for each month and the total for the year. For some watersheds, data are included for years previous to the current year. Underneath, in two lines, are given the (P) and (Q) station average amounts (STA AV) by months, with average annual total for the period of record.

In the second table, entitled ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS, data are also given for the calendar year listed in the first column. Under the maximum discharge heading, the date column shows the month and day that the instantaneous peak in inches per hour occurred. In computing this rate, corrections were made, where needed, for any significant pondage above the runoff-measuring device. Under the maximum volume heading, the date refers to the month and day on which the interval began; for example, if the interval began August 30 at 2359, the entry in the date column would be 8-30. The depths for 1 hour to 8 days are the annual maximum values recorded, without regard to entire clock hours or days; thus, if the 6-hour interval began at 1332, the interval would end exactly 6 hours later at 1932. The volume given is in inches of average depth over the watershed for each of the seven selected time intervals (1, 2, 6, and 12 hours and 1, 2, and 8 days). In the last section of the table, the maximum discharges and depths for the various periods are given under MAXIMUMS FOR PERIOD OF RECORD.

Notes and footnotes below the first two tables include (1) a general statement as to watershed conditions and other physical changes for the period covered; (2) location (publication) where the most recent map may be found; (3) length of precipitation and runoff records; and (4) location of the nearest longtime National Weather Service precipitation station together with the record length.

For some watersheds, tables of daily air temperature (maximum and minimum in degrees Fahrenheit), daily precipitation (inches), and mean daily discharge (cfs) are next, with explanation of the data in footnotes at the end of each table. The multiplier to convert mean daily discharge in cubic feet per second to inches per day is given as the first note to the mean daily discharge table. Cooperating agencies are identified at the bottom of the first page for each watershed just above the index page number.

If no daily tables are given, the tabular data for selected runoff events begin in the remaining

space on the first page and are carried forward on continuation sheets (or pages) until completed. In general, the selected runoff events were those in which runoff was produced by a relatively uniform rainfall excess of short duration. The information for each event includes tabulation of (1) antecedent rainfall and runoff that occurred on the day of the event prior to the beginning of the event; (2) rainfall intensities and accumulated amounts for the event; (3) runoff rates and accumulated amounts for the event; and (4) specific watershed conditions at the time of the event.

Simple graphs of rainfall and runoff rates for all events follow the tabular data. Runoff rates expressed in both cubic feet per second (CFS) and inches per hour (IN/HR) are shown on the graphs. Some very low runoff rates expressed in IN/HR are given in the "E" format, such as 7.25 E-4, which is equal to 0.000725 IN/HR.

Maps follow the graphs unless previously published in references 3-15 or unless shown herein on the map of another watershed.

In the Notes at the bottom of the first page for runoff events, the multiplier to convert runoff rates in cubic feet per second to inches per hour is given. The notes on continuation pages contain the statement on the multiplier and similar explanations of the data on each page.

New Watersheds

For the watersheds installed in recent years and not reported previously (see table 3), the presentation begins with the watershed description in the upper part of the first page. The explanations and definitions on which the description is based are given in the next section.

The first line, centered at the top of the sheet, indicates the project location, which is the nearest city or town, and the number or name of the watershed used locally. The descriptive material is then given under the 12 major topics listed generally down the left side of the sheet: Location, Area, Slopes, Soils, Erosion, Land Capability, Geology, Surface Drainage, Character of Flow, Instrumentation, Watershed Conditions, and Generally Represents.

After this description, the tabular data are summarized in the first two tables and notes are included as previously described for Continuing Watersheds. The tabular data for daily air temperature, precipitation, and discharge, if presented, precede the tabular data for SELECTED RUNOFF EVENTS. The rest of the material of this series for the particular watershed follows in the same order as previously indicated.

WATERSHED DESCRIPTIONS

The following definitions and explanations were used in describing watershed location, watershed characteristics, instrumentation, land management, and recommended area of application of the hydrologic data.

LOCATION gives county and State, distance and direction of the runoff gaging station from the nearest city or town, and the major river basin in which it lies. When two or more basins are involved, the tributary or subbasin is mentioned first, followed by the major basin.

AREA of watershed is given in acres if less than 640 acres and in both acres and square miles if more than 1 square mile. If areas are revised, additional values are included with notes on date of change.

SLOPES are given in terms of the ranges commonly used in survey work in the locality. The percentages of the watershed lying in each slope class are listed. As an example, 8% is in 0-2% class means that 8 percent of the watershed area has slopes ranging from 0 to 2 percent.

SOILS are described briefly, according to definitions from the U.S. Department of Agriculture "Soil Survey Manual," Agriculture Handbook 18, published in 1951. Soil descriptions are given for the new watersheds. Soil-type name consists of the soil series plus the textural class, determined primarily by the texture of the upper part of the soil profile.

Soil texture refers to the relative proportions of the various size groups (or separates) of individual soil grains in a mass of soil. Specifically it refers to the proportions of clay, silt, and sand less than 2 mm in diameter. The various classes of texture in order of increasing percentages of the smaller size groups are (1) sand, (2) loamy sand, (3) sandy loam, (4) loam, (5) silt loam, (6) silt, (7) sandy clay loam, (8) clay loam, (9) silty clay loam, (10) sandy clay, (11) silty clay, and (12) clay. In some of the descriptions the broader classification of coarse, moderately coarse, medium, moderately fine, and fine has been used--the coarse soils are the sands and the fine soils the clays.

Soil structure refers to the aggregation of primary soil particles into compound particles, or clusters of primary particles, that are separated from adjoining aggregates by surfaces of weakness. Structure grade, or the durability of the aggregates when subjected to disturbance, is described as structureless, weak, moderate, or strong. For some soils the structureless grade is described as massive, if coherent, or single grain, if non-coherent. The size of the aggregates is reported as very fine, fine, medium, coarse, or very coarse. Structure shape is given as being platy, prismatic, columnar, angular blocky, subangular blocky, granular, or crumb.

Permeability is the quality of a soil that enables it to transmit water or air. This quality is indicated by the terms very slow, slow, moderately slow, moderate, moderately rapid, rapid, or very rapid.

Internal soil drainage is the quality of a soil that permits the downward flow of excess water through it. Internal drainage is reflected in the frequency and duration of periods of saturation with water. It is determined by the texture, structure, and other characteristics of the soil profile and of underlying layers and by the height of the water table, either permanent or perched, in relation to the water added to the soil. Internal drainage is described as none, very slow, slow, medium, rapid, or very rapid.

Soils may be grouped into soil drainage classes, based on observations and inferences used to obtain classes of runoff, soil permeability, and internal soil drainage. These classes are given in some soils descriptions to identify internal drainage. They are very poorly drained, poorly drained, imperfectly or somewhat poorly drained, moderately well drained, well drained, somewhat excessively drained, or excessively drained.

EROSION conditions on the watershed are described according to the following classification for water and wind erosion, also briefed from Agriculture Handbook 18. The percentage of the watershed in the following erosion classes is given.

Class 1.--The soil has a few rills or places with thin A horizons that give evidence of

accelerated erosion, but not to an extent to alter greatly the thickness and character of the A horizon. Except for soils having very thin A horizons (less than 8 inches), the surface soil consists entirely of A horizon throughout nearly all the delineated areas. Up to about 25 percent of the original A horizon, or original plowed layer in soils with thin A horizons, has been removed from most of the area. This class also includes the areas with no erosion.

Class 2.--The soil has been eroded to the extent that ordinary tillage implements reach through the remaining A horizon or well below the depth of the original plowed layer in soils with thin A horizons. Generally the plowed layer consists of a mixture of the original A horizon and the underlying horizons. Mapped areas of eroded soil usually have patches in which the plowed layer consists entirely of the original A horizon and others in which it consists entirely of underlying horizons. Shallow gullies may be present. Approximately 25 to 75 percent of the original A horizon or surface soil may have been lost from most of the area.

Class 3.--The soil has been eroded to the extent that all or practically all the original surface soil, or A horizon, has been removed. The plowed layer consists essentially of materials from the B or other underlying horizons. Patches in which the plowed layer is a mixture of the original A horizon and the B horizon, or other underlying horizons, may be included within mapped areas. Shallow gullies, or a few deep ones, are common in some soil types. More than about 75 percent of the original surface soil, or A horizon, and commonly part or all the B horizon, or other underlying horizons, have been lost from most of the area.

Class 4.--The land has been eroded until it has an intricate pattern of moderately deep or deep gullies. Soil profiles have been destroyed except in small areas between the gullies. Such land is not useful for crops in its present condition. Reclamation for crop production or for improved pasture is difficult, but may be practicable if other characteristics of the soil are favorable and erosion can be controlled.

Class +.--Recent alluvial and colluvial deposition.

LAND CAPABILITY is given as classified by Klingebiel and Montgomery in U.S. Department of Agriculture "Land-Capability Classification," Agriculture Handbook 210, published in 1961. The classification expresses the suitability of land for use without deterioration. The eight land-capability classes are distinguished according to the risk of land damage or difficulty of land use. Classes I-IV are suitable for cultivation and other uses, whereas classes V-VIII are not suitable for cultivation.

Class I.--Very good land for cultivation; nearly level and productive; not subject to erosion; needs only ordinary good farming methods.

Class II.--Good land for cultivation; mostly gently sloping; not more than moderately subject to erosion; some land may be rather wet; can be farmed safely with easily applied practices.

Class III.--Moderately good land for cultivation; mostly moderately sloping; some areas too wet or too dry; can be farmed safely with practical conservation measures, carefully applied; usually a combination of two or more measures is needed.

Class IV.--Fairly good land, suitable for occasional cultivation; generally strongly sloping; often shallow or very sandy; often found in dry climate.

Class V.--Land very well suited for grazing or forestry; requires good range or woodland management.

Class VI.--Land well suited for grazing or

forestry; steeply sloping land, or stony or shallow soil; eroded, droughty, or wet land; requires careful management.

Class VII.--Land fairly well suited for grazing or forestry; severely limited in use by such factors as very steep slope, shallow or droughty soil, wetness, severe erosion, or excessive salinity; requires very careful management.

Class VIII.--Land not suitable for cultivation, grazing, or forestry; may be useful for wildlife, recreation, or protection of water supplies.

WATERSHED GEOLOGY information, when available, for new watersheds is reported here. The parts of each watershed occupied by various geological formations or series are briefly described, together with strike and dip of the strata, thickness, and relative position, when known. Faults, perched water tables, outcrops, if present, and other details relating to the movement of water within the drainage area or affecting the hydrology of the watershed are described.

SURFACE DRAINAGE refers to the ease with which excess water flows from the watershed area. The length of the principal waterway is the distance from the gaging station to the most remote point on the watershed boundary, measured along the flood plain of the watercourse.

CHARACTER OF FLOW describes the flow of the principal watercourse with respect to permanence and space. The following definitions are from Meinzer's "Outline of Ground-Water Hydrology," U.S. Geological Survey Water-Supply Paper 494, published in 1923.

As to permanence, streams may be divided into perennial, intermittent, and ephemeral streams.

A perennial stream, or stretch of a stream, flows continuously. Perennial streams are generally fed in part by springs, and their upper surfaces usually stand lower than the water table in the localities through which they flow.

Intermittent streams may be divided, with respect to their water source, into spring-fed intermittent streams and surface-fed intermittent streams. They also flow in direct response to precipitation.

A spring-fed intermittent stream, or stretch of a stream, flows only at certain times when it receives water from springs. The intermittent character of streams of this type is generally caused by fluctuations of the water table, whereby the stream channels stand part of the time below and part of the time above the water table. This is the ordinary type of intermittent stream.

A surface-fed intermittent stream, or stretch of a stream, flows during protracted periods when it receives water from some surface source, generally the gradual and long-continued melting of snow in a mountainous or other cold tributary area. The term may be arbitrarily restricted to streams or stretches of streams that flow continuously during periods of at least 1 month.

An ephemeral stream, or stretch of a stream, flows only in direct response to precipitation. It receives no water from springs and no long-continued supply from melting snow or other surface source. Its stream channel is at all times above the water table. The term may be arbitrarily restricted to streams or stretches of streams that do not flow continuously for as long as 1 month.

With respect to continuity in space, streams may be divided into continuous and interrupted streams. An interrupted stream contains (1) perennial stretches with intervening, intermittent, or ephemeral stretches or (2) intermittent stretches with intervening ephemeral stretches. These two classes of interrupted streams are designated,

respectively, perennial interrupted streams and intermittent interrupted streams. A continuous stream does not have interruptions in space. It may be perennial, intermittent, or ephemeral, but it does not habitually have wet and dry stretches.

INSTRUMENTATION describes the type of runoff control or measuring device, number and type of precipitation gages, type of charts used, and snow courses, if employed.

WATERSHED CONDITIONS describe the general use and farm, forest, or range practices before the period of record and the conservation measures, crops, yields, and general cultural operations and practices during the period of record. Rotation crops are listed in the order grown. Operations are described with commonly used agricultural terms, and only those that appear to have a significant relationship to the hydrology of the watershed are mentioned.

GENERALLY REPRESENTS gives the broad area of application for which the data of the specific watershed are recommended. The land resource areas named are those delineated on the map titled "Location of Experimental Agricultural Watersheds of the Science and Education Administration-Agricultural Research," on pages 20 and 21. Solid circles show the approximate locations of the continuing or new watersheds; open circles show approximate locations of the discontinued studies. For a few studies the circles indicate the locations of the project headquarters instead of the watershed locations. A larger index map with more detail is included in reference 4.

For some studies there is an apparent contradiction between the watershed location on the maps and the descriptive information under Generally Represents. This is caused by the small scale of maps; it is difficult to show many small local variations in boundaries of the land resources areas. The descriptive statements, instead of the map location, should be the guide to the application of the data.

STANDARD SYMBOLS FOR TABULAR DATA

The following capital letters have been used as standard symbols throughout this publication to designate specific items or meanings:

Symbol	Meaning
E	value is estimated or partially estimated.
H	precipitation in form of hail.
L	precipitation in form of sleet or freezing rain.
M	mixed precipitation in form of rain, snow, and sleet.
N	precipitation in form of rain and snow.
NR	when used in place of value, "no record."
P	monthly or annual precipitation in inches.
Q	monthly or annual runoff in inches.
RG	rain gage, generally followed by gage number.
S	precipitation in form of snow.
STA AV (or AVG)	station average for period of record.
T	trace, indicates that the value is not large enough to round to the lowest significant digit. In some arrays a trace value is indicated by all zeros, with more than one zero located to the right of the decimal.
Z	indicates an accurately measured total for a series of days that has been equally divided among coded days.

Time-of-day symbols or designations a, p, m, and n used in previous publications through 1961 have been discontinued, and military time (0001 through 2400) has been substituted in publications since then. Unless stated otherwise, time used in tables is eastern, central, mountain, or Pacific standard, whichever applies to the given location.

PERSONNEL RESPONSIBLE FOR DATA PREPARATION

At each research location many individuals have contributed to the planning and establishment of the watershed and the collection, compilation, and analysis of the data. Some of those who were directly responsible for preparing the data and information for this report are--

<u>Name</u>	<u>Location</u>
R. B. Slack.....	08, 75
A. P. Barnett, A. W. Thomas.....	10
J. C. Carr, V. O. Shanholtz.....	13
R. M. Weaver.....	16
L. A. Kramer, M. Mazzocco.....	25, 71
C. A. Salrin.....	26
W. O. Ree, W. R. Gwinn, F. L. Wimberly.....	37
C. W. Richardson, D. A. Wright.....	42, 70
A. J. Bowie, C. K. Mutchler.....	62
V. A. Ferreira.....	63, 64
C. L. Hanson, A. R. Kuhlman, D. A. Woolhiser.....	65, 72
R. DeAngelis, D. Grant.....	67
R. L. Engleman.....	68
D. G. DeCoursey, M. A. Hartman, A. D. Nicks, E. D. Rhodes, R. R. Schoof, O. D. Workman.....	69

ADDITIONAL PUBLICATIONS BY LOCATION

In references 1 and 4-15 (see pp. 1 and 2), citations to other publications, which present watershed data and interpretations of results in various journals, bulletins, and periodicals, are given at the end of the introduction for many of the locations. Following is a listing, by location number, of publications (issued in 1972) that resulted from related work through 1972. Several publications pertaining to the overall program of hydrology that could not be tied to a specific location are listed at the end under General References.

16. Klingerstown, Pennsylvania

Parmelee, L. H., Engman, E. T., and Hendrick, R. L.

The use of simulation models for evaluating the efficiency of a precipitation gauge network. 2d Symp. on Met. Observ. and Instrument., San Diego, Calif., Proc. 1972, pp. 52-57, illus. (Preprint.)

26. Coshocton, Ohio

Harrold, L. L.

Soil erosion by water as affected by reduced tillage systems. No-Tillage Systems Symp., Ohio State Univ. and Ohio Agr. Res. Devlpmt. Cent., Proc. 1972, pp. 21-29, illus.

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A severe rainstorm test of no-till corn. Jour. Soil and Water Conserv. 27 (1): 30, illus.

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_____ and Parmelee, L. H.

Maximum potential evapotranspiration frequency - east central U.S. Amer. Soc. Civ. Engin. Proc., Irrig. and Drain. Div. Jour. 98 (IR 2): 207-214, illus.

White, R. K., and Edwards, W. M.

Beef barnlot runoff and stream water quality. In Waste Management Research, Cornell Agr. Waste Mangt. Conf. Proc. 1972, pp. 225-235, illus.

42. Riesel, Texas

Richardson, C. W.

Changes in water yield of small watersheds by agricultural practices. Amer. Soc. Agr. Engin. Trans. 15 (3): 591-593, illus.

Ritchie, J. T., Kissel, D. E., and Burnett, E.

Water movement in undisturbed swelling clay soil. Soil Sci. Soc. Amer. Proc. 36 (6): 874-879, illus.

Williams, J. R.

Concept of a technique for an analysis of watershed runoff events. In Decisions With Inadequate Hydrologic Data, 2d Internat. Symp. in Hydrol., Fort Collins, Colo., Proc. 1972, pp. 111-120, illus.

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Sediment yield computed with universal equation. Amer. Soc. Civ. Engin. Proc., Hydraul. Div. Jour. 98 (HY 12): 2087-2098, illus.

47. Albuquerque, New Mexico

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Significance of antecedent soil moisture to a semiarid watershed rainfall-runoff relation. In Hydrol. and Water Resources in Ariz. and the Southwest. Joint Mtg. -- Hydrol. Sect., Ariz. Acad. Sci., Ariz. Sect., Amer. Water Resources Assoc., Prescott, Ariz., Proc. 1972 (2), pp. 385-406, illus.

62. Oxford, Mississippi

Bowie, A. J., and Bolton, G. C.

Variations in runoff and sediment yields of two adjacent watersheds as influenced by hydrologic and physical characteristics. Miss. Water Resources Conf., Jackson, Miss., Proc. 1972, pp. 37-55, illus.

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Direct measurements and computations of total sediment discharge. Amer. Soc. Agr. Engin. Trans. 15 (1): 91-93, 98, illus.

Harmon, W. C.

Discussion: "Bed load transportation in alluvial channels," by Satya P. Garg, A. K. Agrawal, and Prem Raj Singh. Amer. Soc. Civ. Engin., Hydraul. Div. Proc. Paper 8091, v. 97 (HY 5), 1971. Amer. Soc. Civ. Engin. Proc., Hydraul. Div. Jour. 98 (HY 1): 291-295, illus.

Murphree, C. E., McDowell, L. L., Bolton, G. C., and Bowie, A. J.

Field performance and evaluation of two automatic suspended sediment pumping samplers. Miss. Water Resources Conf., Jackson, Miss., Proc. 1972, pp. 1-17, illus.

63. Tombstone, Arizona
Chery, D. L., Jr., and Lane, L. J.
Calculation of pond inflow hydrographs by a chord slope method and a volume increment method. Amer. Soc. Agr. Engin. Trans. 15 (3): 433-435, 439, illus.
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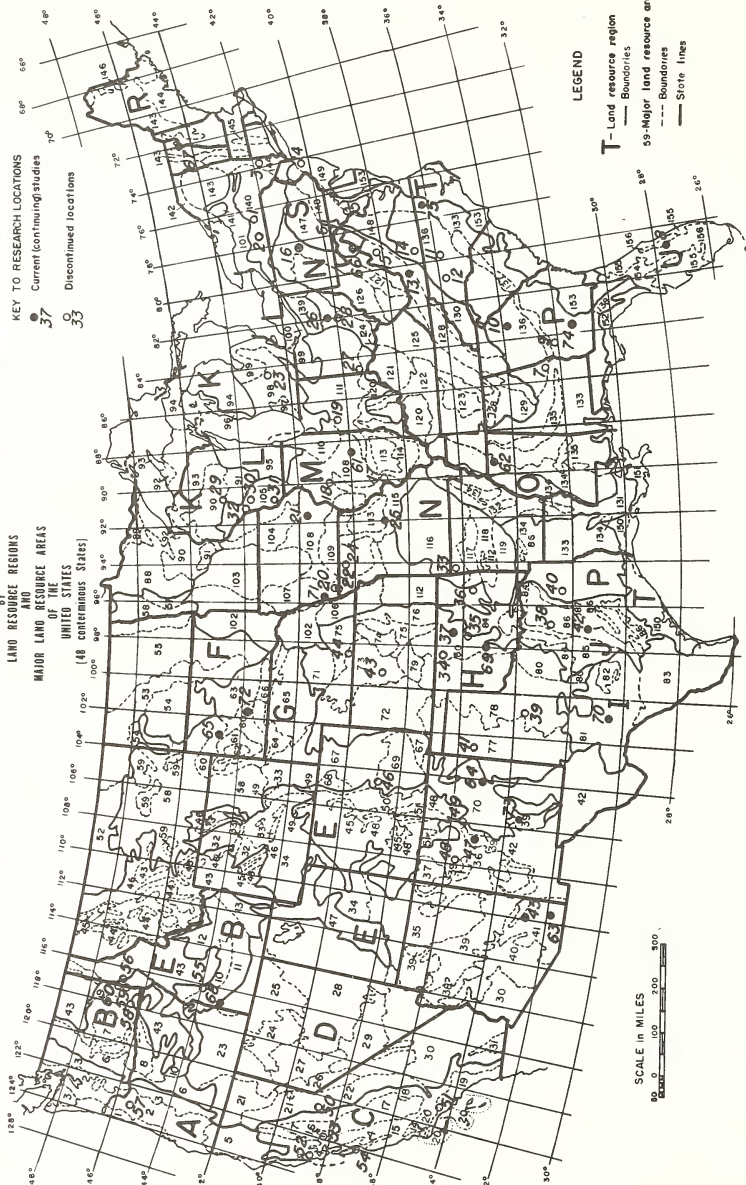
[Pages 20 through 22]

LOCATION OF EXPERIMENTAL AGRICULTURAL WATERSHEDS OF THE SCIENCE & EDUCATION ADMINISTRATION, AGRICULTURAL RESEARCH (1972)

KEY TO RESEARCH LOCATIONS
LAND RESOURCE REGIONS
MAJOR LAND RESOURCE AREAS
UNITED STATES
(48 contiguous States)

37
Current continuing studies

33
Discontinued locations



U.S. Department of Agriculture

Land Resource Area delineations as determined by the Soil Conservation Service

LEGEND FOR LAND RESOURCE REGIONS AND MAJOR LAND RESOURCE AREAS

(Of the 48 CONterminous States)

A

NORTHWESTERN FOREST, FORAGE, AND SPECIALTY CROP REGION

- 1 Northern Pacific Coastal Range and Valleys
- 2 Willamette and Puget Sound Valleys
- 3 Olympic and Western Slope Cascade Mountains
- 4 California Coastal Redwood Belt
- 5 Sanjose Valley Area

B

NORTHWESTERN WHEAT AND RANGE REGION

- 6 Eastern Slope Cascade Mountains
- 7 Columbia Basin
- 8 Willamette Valley
- 9 Palouse and Nez-Perce Plains
- 10 Upper Snake River Lava Plains and Hills
- 11 Snake River Plain
- 12 Lost River Valley and Mountains
- 13 Eastern Idaho Plateaus

C

CALIFORNIA SUBTROPICAL FRUIT, TRUCK, AND SPECIALTY CROP REGION

- 14 Central California Valleys
- 15 Central California Coast Range
- 16 California Delta
- 17 Sacramento and San Joaquin Valleys
- 18 Central Valley
- 19 Southern California Coastal Plains
- 20 Southern California Mountains

D

WESTERN RANGE AND IRRIGATED REGION

- 21 Klamath and Shasta Valleys and Basins
- 22 Rogue Valley
- 23 Malheur High Plateau
- 24 Humboldt Area
- 25 Owyhee High Plateau
- 26 Snake River Plateau
- 27 Fallon-Lovelock Area
- 28 Great Salt Lake Area
- 29 Snake River and Range
- 30 Sonoran Basin and Range
- 31 Imperial Valley
- 32 Colorado Desert
- 33 Semiarid Rocky Mountains

E

ROCKY MOUNTAIN RANGE AND FOREST REGION

- 34 Northern Rocky Mountains
- 35 Northern Rocky Mountains
- 36 Northern Rocky Mountains
- 37 Northern Rocky Mountains
- 38 Northern Rocky Mountain Foothills
- 39 Northern Rocky Mountain Foothills
- 40 Southern Rocky Mountain Foothills
- 41 San Luis Valley
- 42 High Uncultivated

F

NORTHERN GREAT PLAINS SPRING WHEAT REGION

- 51 Brown Glaciated Plain
- 52 Dark Brown Glaciated Plain
- 53 Rolling Soft Shale Plain
- 54 Red River Valley of the North
- 55 Western Minnesota Forest-Prairie Transition

G

WESTERN GREAT PLAINS RANGE AND IRRIGATED REGION

- 56 Northern Rolling High Plains
- 57 Northern Smooth High Plains
- 58 Black Hills Foothills
- 59 Black Hills
- 60 Pierre Shale Plains and Badlands
- 61 Rolling Shale Plains
- 62 Mixed Sandy and Silty Tableland
- 63 Dakota-Nebraska Eroded Tableland
- 64 Central High Plains
- 65 Upper Arkansas Valley Rolling Plains
- 66 Upper Arkansas Valley Rolling Plains
- 67 Pecos-Cañadon Plains and Valleys

H

CENTRAL GREAT PLAINS WINTER WHEAT AND RANGE REGION

- 71 Central Nebraska Loess Hills
- 72 Central Nebraska Loess Hills
- 73 Rolling Plains and Breaks
- 74 Central Kansas Sandstone Hills
- 75 Central Kansas Sandstone Hills
- 76 Bluestem Hills
- 77 Southern High Plains
- 78 Central Kansas Sandstone Hills
- 79 Great Bend Sand Plains
- 80 Central Rolling Red Prairies

I

SOUTHWESTERN PLATEAUS AND PLAINS, RANGE AND COTTON REGION

- 81 Edwards Plateau
- 82 Texas Plateau
- 83 Rio Grande Plain

J

SOUTHWESTERN PRAIRIES, COTTON, AND FORAGE REGION

- 84 Cross Timbers
- 85 Grand Prairie
- 86 Texas Blackland Prairie
- 87 Texas Blackland Prairie

K

NORTHERN LAKE STATES FOREST AND FORAGE REGION

- 88 Wisconsin and Minnesota Sand Outwash
- 89 Wisconsin and Minnesota Sand Outwash
- 90 Minnesota Rockland Hills
- 91 Wisconsin and Minnesota Sand Outwash
- 92 Wisconsin and Minnesota Sand Outwash
- 93 Northern Michigan and Wisconsin Stony, Sandy, and Rocky
- 94 Northern Michigan Sandy Drift

L

LAKE STATES FRUIT, TRUCK, AND DAIRY REGION

- 95 Southern Wisconsin Drift Plain
- 96 Western Michigan Fruit Belt
- 97 Southwestern Michigan Fruit and Truck Belt
- 98 Southern Michigan Fruit and Truck Belt
- 99 Erie-Huron Lake Plain
- 100 Erie Fruit and Truck Area
- 101 Ontario-Mohawk Plain

M

CENTRAL FEED GRAINS AND LIVESTOCK REGION

- 102 Central Iowa and Sandy Prairie Hills
- 103 Central Iowa and Sandy Prairie Hills
- 104 Eastern Iowa and Minnesota Till Prairies

N

EAST AND CENTRAL GENERAL FARMING AND FOREST REGION

- 105 Northern Mississippi Valley Loess Hills
- 106 Illinois and Iowa Deep Loess and Drift
- 107 Iowa and Missouri Deep Loess Hills
- 108 Illinois and Iowa Deep Loess and Drift
- 109 Northern Illinois and Indiana Heavy Till Plain
- 110 Northern Illinois and Indiana Heavy Till Plain
- 111 Indiana and Ohio Till Plains
- 112 Erie-Huron Lake Plain
- 113 Erie-Huron Lake Plain
- 114 Southern Mississippi Valley Wooded Slopes
- 115 Central Mississippi Valley Wooded Slopes

O

MISSISSIPPI DELTA COTTON AND FEED GRAINS REGION

- 116 Southern Mississippi Valley Alluvium
- 117 Eastern Arkansas Prairies
- 118 Eastern Arkansas Prairies
- 119 Eastern Arkansas Prairies
- 120 Kentucky and Indiana Sandstone and Shale Hills and Valleys
- 121 Kentucky Bluegrass
- 122 Kentucky Bluegrass
- 123 Nashville Basin
- 124 Western Allegheny Plateau
- 125 Western Allegheny Plateau
- 126 Central Allegheny Plateau
- 127 Eastern Allegheny Plateau and Mountains
- 128 Southern Appalachian Ridge and Valleys
- 129 Southern Appalachian Ridge and Valleys
- 130 Blue Ridge

P

SOUTH ATLANTIC AND GULF SLOPE CASH CROP, FOREST, AND LIVESTOCK REGION

- 131 Southern Mississippi Valley Alluvium
- 132 Eastern Arkansas Prairies
- 133 Eastern Arkansas Prairies
- 134 Southern Mississippi Valley Silty Uplands
- 135 Alabama and Mississippi Blackland Prairies
- 136 Alabama and Mississippi Blackland Prairies
- 137 Carolina and Georgia Sandhills
- 138 North Central Florida Ridge

R

NORTHEASTERN FORAGE AND FOREST REGION

- 139 Eastern Ohio Till Plain
- 140 Eastern Ohio Valley and Catskill Mountains
- 141 Tug Hill Plateau
- 142 St. Lawrence-Champlain Plain
- 143 New England and Eastern New York Upland
- 144 New England and Eastern New York Upland
- 145 Connecticut Valley
- 146 Aroostook Area

S

NORTHERN ATLANTIC SLOPE, TRUCK, FRUIT, AND POULTRY REGION

- 147 Northern Appalachian Ridge and Valleys
- 148 Northern Piedmont
- 149 Northern Coastal Plain

T

ATLANTIC AND GULF COAST LOWLANDS, FOREST AND TRUCK CROP REGION

- 150 Gulf Coast Prairies
- 151 Gulf Coast Prairies
- 152 Gulf Coast Platewoods
- 153 Atlantic Coast Platewoods

U

FLORIDA SUBTROPICAL FRUIT, TRUCK CROP, AND RANGE REGION

- 154 South Central Florida Ridge
- 155 South Central Florida Ridge
- 156 Florida Everglades and Associated Areas

Information from SCS, State, and other Offices
Compiled by Mary E. Austin

Table 3.--Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1972 and included in this publication

State	Locality	Assigned location number	Major land resource areal/	Watershed units	Events reported	Pages
Arizona.....	Tombstone.....	63	D-41	8	13	180-212
Florida.....	Vero Beach.....	08	U-55	3	0	24-29
Georgia.....	Watkinsville.....	10	P-136	1	1	30-33
Idaho.....	Reynolds.....	68	D-23, D-25	8	9	245-280
Iowa.....	Treynor.....	71	M-107	2/4	4	397-412
Mississippi.....	Oxford.....	62	P-133, P-134	3/5	5	160-179
Missouri.....	McCredie.....	25	M-113	1	0	55-56
New Mexico.....	Santa Rosa.....	64	G-70	1	1	213-215
North Carolina.....	Ahoskie.....	75	P-133	4	4	422-433
Ohio.....	Coshooton.....	26	N-124	4/6	5	57-74
Oklahoma.....	Chickasha.....	69	H-78, H-80, J-84	33	6	281-352
	Stillwater.....	37	H-80	3	2	75-82
Pennsylvania.....	Klingerstown.....	16	S-147	1	1	50-54
South Dakota.....	Newell.....	65	G-58, G-59, G-60	7	0	216-229
	Cottonwood.....	72	G-60	3	3	413-421
Texas.....	Riesel (Waco).....	42	J-86	22	22	83-159
	Sonora.....	70	I-81	5/12	10	353-396
Vermont.....	North Danville.....	67	R-144	6/4	6	230-244
Virginia.....	Blacksburg.....	13	N-128, N-130, P-136, S-148	5	5	34-49

1/ See location map (p. 20) and legend (p. 21).

2/ 1 watershed (Treynor, Iowa) included in the 1971 publication (reference No. 15) is not included in this publication.

3/ 7 watersheds (Oxford, Miss.) included in the 1971 publication (reference No. 15) are not included in this publication. Records terminated during 1972.

4/ 4 watersheds (Coshooton, Ohio) included in the 1971 publication (reference No. 15) are not included in this publication. Records terminated during 1972, either temporary or permanent.

5/ 1 watershed (Sonora, Tex.) (70005) included in the 1971 publication (reference No. 15) is not included in this publication. Records were terminated.

6/ 1 watershed (North Danville, Vt.) (67002) included in the 1971 publication (reference No. 15) is not included in this publication.

Table 4.-- Watersheds, listed by State and locality, for which data were previously included but are not in this publication^{1/}

State	Locality	Major land resource area 2/	Discontinued watershed units		
			Number	Record period (19--)	Assigned location and watershed number
Arizona.....	Tombstone.....	D-41	1	62-74	63.006
Iowa.....	Treynor.....	M-107	1	63-74	71.005
Mississippi.....	Oxford.....	P-134	7	57-72	62.003,-004,-007,-008, -012,-017,-018
Ohio.....	Coshooton.....	N-124	1	38-72	26.003
			2	39-72	26.020,-035
			1	67-72	26.041
Texas.....	Sonora.....	I-81	1	61-73	70.005
Vermont.....	North Danville.....	R-144	1	58-78	67.002

1/ For discontinued watershed studies prior to 1971, see tables in previous publications.

2/ See location map (p. 20) and legend (p. 21).

WATERSHED DATA BY LOCATION NUMBER
AND
DECIMAL PAGING

[8.002-1 TO 75.004-3, A TOTAL OF 410 DATA SHEETS]
For location by States and Land Resource Areas
and Regions, see U.S. Index Map, page 20.

LOCATION: Okeechobee County, Florida. Runoff gaging site is about 3 mi. N. of City of Okeechobee on Cemetery Road. Taylor Creek empties into Lake Okeechobee. Lat. 27 deg. 17 min. 03 sec. N.; Long. 80 deg. 49 min. 21 sec. W.

AREA: 66880.00 acres 104.50 sq. miles

	MONTHLY PRECIPITATION AND RUNOFF (inches)					VERO BEACH, FLORIDA (TAYLOR CREEK)					WATERSHED W-2		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
P	0.24	2.28	4.35	1.13	5.14	6.94	3.69	10.63	0.84	1.62	3.26	1.71	41.84
1972 Q	0.138	0.155	0.155	0.316	0.158	1.057	0.346	0.986	1.726	0.211	0.135	0.151	5.534
STA AV	1.84	2.48	3.40	1.87	4.50	8.62	6.32	6.87	6.06	4.25	1.36	1.52	49.08
Q	0.509	0.462	1.090	0.201	0.366	2.206	2.011	2.081	2.702	2.051	2.011	0.215	15.504

NOTES: Watershed conditions: 1972: Range 6 forest, 35%; improved pasture, 47%; cropland, 4%; miscellaneous, 10%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pub. 1383, p. 08.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 7 gages. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida.

	1972 DAILY AIR TEMPERATURE (degrees F)												VERO BEACH, FLORIDA (TAYLOR CREEK)				WATERSHED W-2	
	Day	Jan max min	Feb max min	Mar max min	Apr max min	May max min	Jun max min	Jul max min	Aug max min	Sep max min	Oct max min	Nov max min	Dec max min	Jan max min	Feb max min	Mar max min	Apr max min	May max min
1	82	62	77	65	84	55	71	47	85	63	91	69	95	71	93	65	89	73
2	82	62	82	71	86	61	76	43	84	67	86	69	96	70	92	61	91	71
3	85	59	81	47	86	59	78	52	91	64	86	69	96	71	97	65	90	72
4	85	64	62	38	85	56	84	61	84	71	92	68	96	70	91	72	83	69
5	85	66	68	48	85	48	84	60	86	62	86	62	90	69	97	72	92	71
6	78	52	78	58	72	47	82	53	85	71	87	60	91	67	97	73	93	73
7	70	47	81	55	84	58	88	63	85	65	91	69	91	60	93	74	92	71
8	76	52	66	56	86	59	87	66	90	69	89	70	86	69	91	73	89	66
9	82	64	61	55	77	48	72	55	94	70	88	71	87	71	95	70	90	71
10	84	62	76	59	74	49	78	51	87	67	92	71	85	65	94	72	88	69
11	85	62	76	53	76	47	84	59	86	67	88	71	90	72	94	71	89	70
12	82	67	80	62	76	49	86	60	82	67	85	72	93	72	94	70	90	70
13	84	66	73	43	77	48	89	63	85	65	86	71	91	71	92	73	91	71
14	85	56	72	48	81	54	90	63	91	65	88	72	88	72	89	73	92	68
15	83	44	79	61	84	55	92	64	92	67	87	73	91	73	91	72	94	71
16	61	47	82	60	83	58	93	69	86	66	87	71	89	71	93	71	94	69
17	71	52	73	57	79	53	90	65	89	65	86	75	90	73	91	72	93	69
18	77	52	78	43	83	58	91	64	86	65	80	78	90	73	89	73	93	70
19	80	54	60	34	82	57	86	63	85	66	85	75	80	71	90	72	93	71
20	81	62	63	36	83	55	89	69	86	61	86	73	88	72	88	73	92	70
21	81	64	72	47	83	61	92	68	83	61	90	77	89	72	88	71	91	67
22	76	67	76	48	85	52	92	68	85	58	91	74	90	70	88	71	90	66
23	82	56	78	46	84	46	92	64	88	62	90	73	91	74	94	69	90	68
24	88	59	81	50	86	46	87	68	87	64	90	75	90	72	94	73	86	69
25	88	63	83	51	82	57	88	58	89	64	90	74	93	73	87	71	93	72
26	84	58	89	59	75	46	80	53	86	62	92	73	96	73	91	72	90	65
27	83	57	87	57	84	56	80	59	85	63	95	71	94	74	84	69	90	68
28	85	54	84	52	85	64	81	66	89	67	94	74	94	74	94	71	91	70
29	85	55	85	55	88	63	80	62	91	64	95	73	93	73	88	70	94	72
30	85	62	85	55	85	73	82	60	89	67	96	72	93	72	87	69	93	72
31	84	59	75	60	75	60	87	69	88	72	86	71	88	72	86	71	89	64
AV.	81	58	76	52	82	55	85	61	87	65	89	72	91	71	92	71	91	70
MEAN	69.8	64.1	68.3	72.7	76.1	80.2	81.0	81.3	80.7	76.1	71.7	71.7	67.0					
STA AV	71	50	74	50	77	55	83	61	88	66	89	71	92	74	92	74	91	73

NOTES: Temperature data from T-3, readings taken daily. STA AV period from July 1, 1956 through 1972.

1972	DAILY PRECIPITATION (inches)											VERO BEACH, FLORIDA (TAYLOR CREEK)				WATTSBEE #2	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.32	0.0	0.0	0.0001	0.41	0.0	0.0	0.20	0.20	0.0	0.0	0.0				
2	0.0	0.03	0.0	0.0	0.07	0.0	0.0	0.0	0.01	0.01	0.01	0.0	0.0				
3	0.0	0.68	0.72	0.0	0.0	0.30	0.0	0.0	0.001	0.0	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.48	0.17	0.0	0.01	0.70	0.0	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.01	0.0	0.0	0.35				
6	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.001	0.0				
7	0.001	0.0	0.0	0.14	0.0	0.56	0.59	0.08	0.0	0.50	0.0	0.0	0.0				
8	0.0	0.01	0.02	0.0	0.01	0.0	0.22	0.24	0.0	0.0	0.0	0.0	0.0				
9	0.001	0.64	0.0	0.36	0.0	0.57	0.07	0.0	0.0	0.0	0.0	0.0	0.0				
10	0.001	0.07	0.0	0.0	0.23	0.0	0.28	0.0	0.07	0.001	0.0	0.0	0.0				
11	0.0	0.03	0.0	0.0	0.0	0.34	0.0	0.04	0.0	0.01	0.0	0.0	0.0				
12	0.0	0.01	0.0	0.0	0.42	0.13	0.0	1.21	0.14	0.08	0.24	0.0	0.0				
13	0.001	0.0	0.0	0.0	0.23	0.0	1.11	0.001	0.0	0.0	0.0	0.0	0.0				
14	0.001	0.0	0.0	0.0	0.10	0.18	0.12	0.0	0.23	0.0	0.39	0.0	0.0				
15	0.03	0.05	0.0	0.0	0.32	0.0	0.11	0.03	0.0	0.001	0.24	0.02	0.0				
16	0.0	0.19	0.0	0.0	0.09	0.25	0.06	0.07	0.0	0.0	0.0	0.0	0.08				
17	0.01	0.10	0.0	0.0	0.61	0.32	0.04	0.09	0.0	0.0	0.0	0.0	0.0				
18	0.04	0.0	0.0	0.0	0.31	3.27	0.0	0.001	0.0	0.0	0.0	0.0	0.01				
19	0.0	0.0	0.0	0.10	0.04	0.40	0.21	0.001	0.0	0.0	0.37	0.03	0.0				
20	0.0	0.0	0.0	0.0	0.96	0.02	0.04	0.0	0.001	0.57	0.68	0.0	0.0				
21	0.05	0.0	0.04	0.05	0.001	0.0	0.0	0.03	0.01	0.0	0.13	0.0	0.0				
22	0.0	0.0	0.0	0.02	0.0	0.0	0.0	1.88	0.0	0.0	0.04	1.16	0.0				
23	0.0	0.07	0.16	0.03	0.0	0.01	0.15	0.0	0.0	0.0	0.0	0.01	0.0				
24	0.0	0.0	0.0	0.03	0.0	0.0	0.04	0.61	0.06	0.0	0.0	0.0	0.0				
25	0.0	0.0	0.0	0.01	0.26	0.0	0.02	0.02	0.0	0.0	0.51	0.0	0.0				
26	0.01	0.0	0.0	0.0	0.0	1.14	0.0	0.0	0.001	0.0	0.0	0.14	0.0				
27	0.0	0.08	0.0	0.0	0.0	0.03	0.0	1.14	0.01	0.0	0.0	0.0	0.0				
28	0.0	0.0	0.0	0.001	0.0	0.0	0.32	0.0	0.02	0.02	0.0	0.0	0.0				
29	0.0	0.0	0.0	0.03	0.11	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.0	0.0	0.0	0.36	0.28	0.0	0.0	2.15	0.01	0.0	0.0	0.0	0.0				
31	0.08		3.57		0.0		0.01	0.52		0.01		0.0	0.0				
TOTAL	0.24	2.28	4.35	1.13	5.14	6.94	3.69	10.63	0.84	1.62	3.26	1.71					
STA AV	1.84	2.48	3.40	1.87	4.50	8.62	6.32	6.87	6.06	4.25	1.36	1.52					

NOTES: Thiessen weighted rainfall, using 7 rain gages. STA AV based on period July 1, 1955 through 1972.

1972		MEAN DAILY DISCHARGE (cfs)										VERO BEACH, FLORIDA (TAYLOR CREEK)				WATERSEED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	14.0	9.7	9.9	329.0	8.9	19.0	33.0	11.0	1090.0	23.6	15.2	13.0					
2	14.0	16.0	13.6	103.0	8.0	30.0	32.0	10.0	832.0	17.9	14.9	12.5					
3	14.0	20.0	18.0	61.0	7.8	29.0	31.0	7.8	555.0	14.6	13.9	12.1					
4	13.0	23.0	16.0	26.0	7.8	33.0	31.0	6.4	406.0	31.9	13.0	12.1					
5	13.0	15.0	23.0	25.0	5.6	32.0	30.0	5.6	320.0	40.2	12.6	12.9					
6	12.0	12.0	12.0	20.0	3.6	27.0	28.0	5.6	225.0	33.3	11.5	13.1					
7	12.0	12.0	11.0	16.0	3.4	19.0	35.0	6.1	189.0	32.0	10.2	17.7					
8	10.0	14.0	11.0	15.0	3.3	14.0	54.0	5.8	157.0	23.7	8.9	14.9					
9	10.0	16.0	11.0	15.0	3.2	12.0	44.0	5.2	120.0	20.7	8.3	13.2					
10	11.0	21.0	9.5	16.0	3.0	15.0	40.0	5.5	91.0	15.0	7.8	12.5					
11	11.0	23.0	11.0	15.0	2.8	21.0	66.0	5.8	80.0	17.7	8.6	12.3					
12	12.0	19.0	9.2	14.0	2.8	25.0	25.0	14.0	71.0	18.0	9.1	12.1					
13	12.0	18.0	8.4	14.0	4.6	26.0	6.9	19.0	69.0	16.7	11.0	11.6					
14	10.0	14.0	7.9	14.0	6.9	24.0	54.0	14.0	59.0	15.1	12.9	10.8					
15	10.0	13.0	7.6	12.0	6.9	34.0	74.0	15.0	65.0	15.2	15.7	10.7					
16	10.0	15.0	8.2	12.0	7.2	19.0	61.0	12.0	64.0	16.1	12.7	11.6					
17	10.0	25.0	7.6	11.0	9.4	18.0	47.0	15.0	59.0	16.7	10.0	11.5					
18	12.0	24.0	6.9	9.7	21.0	85.0	40.0	14.0	54.0	17.0	9.2	10.4					
19	12.0	19.0	7.3	9.4	26.0	817.0	34.0	11.0	49.0	16.0	9.4	5.7					
20	12.0	13.0	7.3	12.0	27.0	585.0	32.0	10.0	40.0	17.6	13.6	10.3					
21	13.0	10.0	7.0	11.0	32.0	337.0	30.0	9.2	37.0	22.2	15.7	11.4					
22	12.0	11.0	7.6	11.0	15.0	215.0	23.0	19.0	32.0	14.7	13.6	21.0					
23	15.0	11.0	7.0	11.0	14.0	136.0	19.0	75.0	30.0	13.4	12.4	23.6					
24	15.0	9.6	6.4	12.0	12.0	102.0	18.0	125.0	28.0	13.1	12.6	20.9					
25	15.0	10.0	5.7	11.0	11.0	78.0	16.0	108.0	28.0	14.0	13.3	18.1					
26	14.0	9.8	5.7	9.2	15.0	63.0	15.0	98.0	28.0	15.0	19.9	15.7					
27	14.0	10.0	5.0	7.5	83.0	52.0	12.0	124.0	25.0	14.3	18.5	13.5					
28	17.0	11.0	4.9	7.8	38.0	40.0	11.0	228.0	24.0	15.9	17.2	13.0					
29	11.0	10.0	5.5	7.6	18.0	32.0	11.0	193.0	24.0	16.2	14.6	16.1					
30	7.9	4.8	4.8	9.7	14.0	30.0	9.5	403.0	25.0	15.6	14.2	13.0					
31	8.2	161.0	18.0	18.0	18.0	8.9	190.0	15.0	15.6	15.6	12.4	12.4					
MEAN	12.52	15.00	14.08	29.56	14.33	56.97	31.33	89.39	161.63	15.13	12.68	13.69					
INCHES	0.138	0.155	0.155	0.316	0.158	1.057	0.346	0.986	1.726	0.211	0.135	0.151					
STA AV	0.509	0.462	1.050	0.201	0.366	2.206	2.011	2.081	2.702	2.051	2.011	0.215					

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .0003589. Discharge is combined flow from Williamson Ditch and S-1 structure. Runoff data furnished by the U.S. Geological Survey. Discharge measurements generally made once a week.

VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3

LOCATION: Okeechobee County, Florida. Runoff gaging site is approximately 11 mi. (airline) W-W of City of Okeechobee on State Road #68. Northern reach of Taylor Creek Watershed. Lat. 27 deg. 23 min. 24 sec. N.; Long. 80 deg. 53 min. 42 sec. W.

AREA: 12224.00 acres 19.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	0.38	1.81	3.83	1.07	4.79	8.53	3.81	12.56	1.47	1.13	3.68	1.41	44.49
Q	0.147	0.179	0.100	0.124	0.142	0.737	0.173	1.373	1.932	0.124	0.184	0.142	5.358
STA AV P	1.73	2.44	3.34	2.18	4.48	7.89	6.59	6.88	5.68	4.17	1.25	1.45	48.07
Q	0.455	0.336	1.019	0.176	0.269	1.634	1.791	2.073	2.601	1.621	1.135	0.151	13.460

NOTES: Watershed conditions: 1972: Improved pasture, 59%; range 6 forest, 30%; cropland, 1%; miscellaneous, 10%. For revised map of watershed, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pub. 1383, p. 06.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 3 gages. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida.

1972 DAILY PRECIPITATION (inches)														VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec									
1	0.0	0.35	0.0	0.0	0.01	0.57	0.0	0.0	0.20	0.07	0.0	0.0									
2	0.0	0.07	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
3	0.0	0.32	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
4	0.0	0.0	0.0	0.0	0.0	0.75	0.11	0.0	0.03	0.77	0.0	0.0									
5	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.05	0.0	0.0	0.18								
6	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.01	0.0									
7	0.0	0.01	0.0	0.0	0.19	0.00T	0.24	0.08	0.0	0.0	0.82	0.0									
8	0.0	0.03	0.05	0.0	0.06	0.0	0.49	0.26	0.0	0.0	0.0	0.0									
9	0.01	0.67	0.0	0.42	0.0	1.79	0.27	0.0	0.0	0.0	0.0	0.0									
10	0.02	0.03	0.0	0.0	0.60	0.0	0.10	0.0	0.20	0.0	0.0	0.0									
11	0.0	0.03	0.0	0.0	0.0	0.19	0.0	0.10	0.0	0.0	0.0	0.0									
12	0.0	0.0	0.0	0.0	0.24	0.17	0.0	1.30	0.08	0.11	0.37	0.0									
13	0.0	0.00T	0.0	0.0	0.0	0.08	1.16	0.00T	0.0	0.0	0.0	0.0									
14	0.02	0.0	0.0	0.0	0.05	0.06	0.35	0.82	0.62	0.0	0.25	0.0									
15	0.03	0.06	0.0	0.0	0.85	0.0	0.0	0.06	0.0	0.00T	0.26	0.05									
16	0.0	0.14	0.0	0.0	0.06	0.11	0.07	0.25	0.0	0.0	0.0	0.12									
17	0.02	0.08	0.0	0.0	0.38	0.09	0.07	0.01	0.0	0.6	0.0	0.0									
18	0.03	0.0	0.0	0.0	0.14	3.73	0.0	0.0	0.0	0.0	0.0	0.0									
19	0.0	0.0	0.0	0.34	0.18	0.83	0.25	0.01	0.0	0.0	0.70	0.01									
20	0.0	0.0	0.0	0.0	0.44	0.00T	0.04	0.0	0.0	0.11	0.45	0.0									
21	0.05	0.0	0.04	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.10	0.0									
22	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.85	0.0	0.0	0.0	1.05									
23	0.0	0.0	0.0	0.03	0.03	0.0	0.0	0.11	0.0	0.0	0.0	0.00T									
24	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.43	0.11	0.0	0.0	0.0									
25	0.0	0.0	0.0	0.0	0.14	0.0	0.00T	0.0	0.0	0.0	0.61	0.0									
26	0.02	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0	0.00T	0.0									
27	0.0	0.03	0.0	0.0	0.0	0.15	0.0	1.41	0.02	0.0	0.0	0.0									
28	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.05	0.0	0.02	0.07	0.0									
29	0.0	0.0	0.0	0.02	0.00T	0.0	0.0	2.56	0.0	0.0	0.0	0.0									
30	0.0	0.0	0.0	0.24	0.05	0.0	0.0	2.64	0.00T	0.0	0.0	0.0									
31	0.19		2.75		0.0		0.04	0.74		0.00T		0.0									
TOTAL	0.38	1.81	3.83	1.07	4.79	8.53	3.81	12.58	1.47	1.13	3.68	1.41									
STA AV	1.73	2.44	3.34	2.18	4.48	7.89	6.59	6.88	5.68	4.17	1.25	1.45									

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-2, p. 06.002-1. Thiessen weighted average of 3 rain gages. STA AV based on period July 1, 1955 through 1972.

Cooperative Research Project of USDA, Florida Agricultural Experiment Station, U.S. Geological Survey and the Central and Southern Florida Flood Control District

1972													VERO BRACH, FICUIDA (TAYLOR CREEK) WATERSHED W-3												
MEAN DAILY DISCHARGE (cfs)																									
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	1.60	1.60	1.40	12.00	1.00	6.20	2.00	3.50	226.00	2.80	1.00	3.20													
2	2.40	4.60	1.40	5.10	0.90	4.50	0.90	0.0	159.00	2.20	1.00	2.80													
3	1.80	5.10	3.60	3.60	1.00	2.40	0.0	0.30	119.00	2.00	1.00	2.00													
4	1.80	5.10	3.20	2.80	0.80	2.00	0.40	0.50	97.00	5.50	1.60	2.20													
5	1.80	2.60	4.60	2.60	0.70	2.10	1.00	1.00	78.00	4.10	1.40	2.60													
6	2.00	2.80	2.20	2.20	0.70	1.10	1.20	0.50	63.00	3.40	1.00	3.20													
7	2.00	2.80	1.40	1.80	0.60	0.0	3.60	1.40	89.00	3.20	2.40	3.00													
8	1.60	3.00	1.00	1.40	0.60	0.0	4.60	2.00	36.00	2.80	3.40	6.80													
9	1.40	5.90	0.90	1.80	0.50	0.80	4.80	2.00	24.00	2.40	2.20	1.00													
10	1.80	6.60	0.50	2.00	0.60	1.40	4.10	1.00	16.00	2.20	1.80	2.00													
11	3.00	6.60	0.50	1.60	1.00	1.60	3.80	0.90	12.00	2.20	1.60	1.40													
12	7.20	5.90	0.40	1.40	1.00	2.00	3.20	2.00	9.50	2.00	0.50	1.60													
13	3.40	3.40	0.30	1.40	1.20	2.20	6.50	4.60	7.50	1.60	2.60	1.40													
14	2.60	3.00	0.40	1.20	1.00	2.00	8.10	2.40	9.20	1.80	3.00	2.20													
15	2.00	3.00	0.40	1.00	1.00	1.80	8.10	2.20	12.00	2.00	3.80	2.40													
16	2.20	3.00	0.50	1.00	1.40	1.60	6.70	1.00	18.00	2.00	3.00	2.40													
17	2.20	5.90	0.70	0.80	3.00	4.90	5.40	1.00	11.00	2.20	2.60	1.00													
18	2.20	2.80	0.40	0.70	3.20	19.00	4.30	1.80	8.90	2.00	2.20	1.60													
19	2.20	1.20	0.60	1.30	2.80	160.00	3.40	2.20	6.20	1.80	2.80	2.00													
20	2.60	1.00	0.90	3.80	3.60	60.00	3.60	2.20	4.90	3.20	5.50	1.80													
21	2.60	1.00	0.90	1.60	4.30	34.00	2.90	1.80	4.30	1.60	7.00	1.20													
22	2.80	1.60	0.90	1.60	2.60	20.00	2.50	11.00	4.00	0.50	5.60	4.80													
23	2.80	1.60	1.00	1.80	2.00	13.00	2.10	16.00	3.60	0.80	4.80	3.60													
24	3.00	2.00	1.00	1.80	1.80	10.00	1.60	7.00	3.40	1.60	4.10	2.80													
25	3.00	2.00	0.80	1.60	1.80	7.50	1.40	4.70	3.40	1.40	4.10	2.40													
26	2.80	2.00	0.80	1.20	11.00	5.70	1.20	3.40	3.20	0.90	6.60	2.00													
27	2.80	2.00	1.00	1.00	17.00	4.30	0.70	9.70	2.90	1.00	5.10	1.80													
28	3.20	2.00	1.00	1.00	4.00	3.40	0.0	14.00	1.00	1.40	4.30	1.80													
29	2.20	1.80	1.00	1.20	0.20	2.70	0.0	13.00	1.20	0.80	4.10	2.60													
30	1.60	1.40	1.40	1.60	0.10	2.40	0.0	205.00	2.80	0.50	3.80	2.00													
31	1.00		16.00		1.60		0.60	386.00		0.80		1.40													
MEAN	2.439	3.170	1.688	2.130	2.350	12.620	2.874	22.739	33.067	2.061	3.157	2.355													
INCHES	0.187	0.179	0.100	0.124	0.182	0.737	0.173	1.373	1.932	0.124	0.184	0.182													
STA AV	0.455	0.336	1.019	0.176	0.269	1.634	1.791	2.073	2.601	1.821	1.135	0.151													

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .00194712. Runoff data furnished by U.S. Geological Survey.

LOCATION: Okeechobee County, Florida; 125 feet upstream from control structure 7, 450 feet upstream from confluence with Taylor Creek, 3.6 miles north of town of Okeechobee, Florida.

AREA: 22656.00 acres 35.40 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSHED W-5		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
P	0.20	2.71	4.08	1.37	4.06	6.34	3.25	5.82	0.45	2.24	3.02	1.64	35.97
1972 Q	0.133	0.182	0.238	0.511	0.085	1.004	0.194	0.781	0.735	0.109	0.120	0.153	4.285
STA AV P	1.98	2.52	3.38	0.84	4.25	10.87	7.14	7.82	5.17	5.42	1.47	1.34	52.20
Q	0.641	0.367	1.023	0.203	0.330	2.761	2.741	2.765	1.796	1.591	0.666	0.360	15.665

NOTES: Watershed Conditions: 1972: Vegetative cover: Improved pasture - 60%; unimproved pasture and range with little timber - 15%; woodland - 10%; citrus - 5%; marsh-swamp - 5%; urban, roads, etc. - 5%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pub. 1383, p. 08.002-3. Precipitation and runoff records began April 1964, part-year records not included in STA AV. Precipitation Thiessen weighted using 2 gages. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971, afterwards use Okeechobee 9 SW).

1972	DAILY PRECIPITATION (inches)					VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSHED W-5		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.30	0.0	0.0	0.0	0.26	0.0	0.0	0.18	0.47	0.0	0.0	
2	0.0	0.01	0.0	0.0	0.03	0.0	0.0	0.0	0.03	0.04	0.01	0.0	
3	0.0	0.92	0.39	0.0	0.0	0.68	0.0	0.0	0.01	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.35	0.08	0.0	0.0	0.73	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.22	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.01	1.18	0.46	0.0	0.0	0.35	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.01	0.0	0.0	0.0	0.0	
9	0.0	0.62	0.0	0.36	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.09	0.0	0.0	0.0	0.0	0.55	0.0	0.03	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.03	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.36	0.11	0.0	1.39	0.15	0.03	0.12	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.37	0.53	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.13	0.29	0.04	0.27	0.01	0.0	0.39	0.0	
15	0.04	0.06	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.001	0.30	0.01	
16	0.0	0.22	0.0	0.0	0.24	0.25	0.08	0.03	0.0	0.0	0.0	0.03	
17	0.02	0.12	0.0	0.0	0.56	0.45	0.05	0.23	0.0	0.0	0.0	0.0	
18	0.05	0.0	0.0	0.0	0.31	2.62	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.10	0.17	0.0	0.0	0.0	0.0	0.05	
20	0.0	0.0	0.0	0.0	0.68	0.04	0.02	0.0	0.01	0.53	0.88	0.0	
21	0.08	0.0	0.01	0.03	0.0	0.0	0.0	0.07	0.0	0.0	0.14	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.85	0.0	0.0	0.07	1.32	
23	0.0	0.22	0.0	0.35	0.06	0.0	0.01	0.07	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.04	0.0	0.0	0.01	0.13	0.01	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.02	0.31	0.0	0.0	0.06	0.0	0.0	0.51	0.0	
26	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.01	0.0	0.0	0.25	0.0	
27	0.0	0.14	0.0	0.0	0.0	0.0	0.0	1.30	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.04	0.30	0.0	0.0	1.36	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.50	0.18	0.0	0.0	2.04	0.0	0.0	0.0	0.0	
31	0.001		4.48		0.0		0.0	0.39		0.0		0.0	
TOTAL	0.20	2.71	4.88	1.37	4.06	6.34	3.25	9.82	0.45	2.24	3.02	1.64	
STA AV	1.98	2.52	3.38	0.84	4.25	10.87	7.14	7.82	5.17	5.42	1.47	1.34	

NOTES: For daily air temperatures in the vicinity, see p. 08.002-1. Precipitation values are Thiessen weighted averages of two gages. STA AV based on 8 yr (1965-1972) record period.

1972													VEBO BEACH, FLORIDA (WILLIAMSSEN LITCB) WATERGAGE W-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	5.70	8.60	8.20	220.00	2.10	8.60	4.60	2.10	272.00	4.60	4.20	3.90													
2	5.40	5.00	6.50	107.00	1.80	3.90	4.20	2.10	163.00	6.50	3.90	3.90													
3	5.00	6.50	5.70	43.00	1.60	5.00	3.90	2.10	72.00	4.60	3.90	3.60													
4	4.60	8.60	5.40	12.00	1.60	14.00	3.90	1.60	44.00	3.50	3.60	3.60													
5	4.20	6.50	5.40	12.00	1.60	14.00	3.90	1.60	26.00	4.20	3.60	3.90													
6	3.90	5.40	5.00	8.60	1.60	9.10	3.00	1.60	15.00	3.30	3.30	3.90													
7	3.90	5.00	4.60	6.90	1.80	5.40	4.00	2.10	11.00	3.00	2.70	7.70													
8	3.60	4.60	3.90	5.70	2.10	3.60	16.00	1.60	5.10	2.70	2.10	5.40													
9	3.30	5.00	3.60	5.70	2.40	3.00	8.10	1.80	6.50	2.70	1.80	4.20													
10	3.30	7.30	3.30	6.50	2.40	2.40	6.10	2.10	3.90	3.00	1.80	3.90													
11	3.30	8.60	3.00	5.70	2.40	3.00	9.60	2.40	5.00	2.70	2.10	3.90													
12	3.60	8.10	3.00	5.40	2.40	6.90	9.10	4.60	5.00	3.00	2.10	3.90													
13	3.60	6.50	3.30	5.40	2.10	9.10	6.90	7.70	5.00	2.70	3.00	3.60													
14	3.60	5.70	3.90	4.60	1.80	7.30	8.10	3.90	5.40	2.10	3.50	3.30													
15	3.60	5.00	4.20	3.90	1.80	19.00	12.00	5.00	5.70	1.80	5.70	3.30													
16	3.30	5.40	4.20	3.30	2.10	5.70	11.00	3.60	5.00	2.10	4.20	3.60													
17	3.60	11.00	4.20	2.70	2.10	5.00	10.00	4.60	4.20	2.70	3.00	3.30													
18	3.60	12.00	3.90	2.40	3.00	31.00	8.10	4.60	3.90	3.00	2.70	3.00													
19	3.90	8.60	3.90	2.10	7.00	307.00	6.10	3.00	3.60	3.00	2.40	3.00													
20	3.90	6.50	3.30	1.80	3.30	235.00	6.10	2.70	3.60	3.60	4.60	3.00													
21	3.90	5.00	3.00	2.10	3.30	107.00	5.70	2.40	3.30	4.20	5.70	3.60													
22	4.20	4.60	3.00	2.40	3.30	59.00	5.00	4.20	3.30	2.70	4.60	11.00													
23	4.60	4.20	3.00	2.40	3.30	33.00	4.20	25.00	3.30	2.40	3.50	8.60													
24	4.60	3.90	3.00	2.70	3.30	18.00	3.90	26.00	3.00	2.10	3.60	6.90													
25	4.60	3.90	2.70	2.70	2.70	11.00	3.90	17.00	3.00	3.00	3.30	6.10													
26	5.00	3.60	2.70	2.40	2.70	8.10	3.60	13.00	3.00	3.00	6.90	5.70													
27	5.00	3.90	3.00	1.80	3.30	6.90	3.00	15.00	2.70	3.30	6.50	5.00													
28	4.20	4.20	3.30	1.60	3.00	6.50	2.40	48.00	2.70	3.90	6.10	4.60													
29	3.90	4.20	3.90	1.40	2.70	6.10	3.30	34.00	3.30	4.20	4.60	6.90													
30	3.90		3.60	1.80	2.70	5.70	2.70	154.00	3.30	4.60	4.20	5.00													
31	4.20		110.00		3.30		2.70	343.00		4.60		4.60													
MEAN	4.097	5.980	7.253	16.200	2.600	31.840	5.971	23.971	23.327	3.342	3.800	4.706													
INCHES	0.133	0.182	0.238	0.511	0.085	1.004	0.194	0.781	0.735	0.109	0.120	0.153													
STA AV	0.641	0.387	1.023	0.203	0.330	2.761	2.741	2.765	1.796	1.591	0.666	0.360													

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.00105056. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 8 yr (1965-1972) record period.

WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

LOCATION: Oconee Co., Ga.; 7 mi. S.W. of Athens, near Watkinsville, Ga., Oconee River Basin.

AREA: 19.20 acres

MONTHLY PRECIPITATIONS AND RUNOFF (inches)														WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																		
	P 7.42	3.33	4.03	1.44	5.61	5.42	2.57	1.91	1.45	2.47	4.03	9.18	48.86																		
1972	Q 1.101	0.005	0.021	0.0	0.009	0.025	0.001	0.002	0.0	0.002	0.022	1.69	2.788																		
STA AV	P 4.81	4.64	5.94	4.34	3.91	3.73	4.99	3.94	3.14	2.90	3.59	4.66	50.60																		
	Q 0.494	0.373	0.652	0.422	0.361	0.213	0.372	0.313	0.035	0.061	0.248	0.272	3.857																		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
Maximum Discharge														Maximum Volume for Selected time Interval																	
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days															
Date		Date		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.													
1972	1-10	0.229	12-14	0.191	12-15	0.366	12-14	0.807	12-14	1.117	12-14	1.385	12-14	1.394	12-14	1.619															
MAXIMUMS FOR PERIOD OF RECORD																															
4-25		2.710		6-26		1.840		6-26		2.540		6-26		3.480		6-26		3.740		6-26		3.780		11-26		5.680		11-22		6.640	
1945				1963				1963				1963				1963				1963				1948				1948			

NOTES: Watershed conditions: 1972: Excellent coastal bermudagrass pasture. Fertilized as follows: March 21, 2000 lbs 60% potassium oxide, 2000 lbs 20% phosphate pentoxide, April 16, 3000 lbs 33-58 N, and May 20, 3700 lbs 33-58 N. One hay cutting in August produced 31 tons. A total of 2700 cow-days of grazing. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 10.1-8. Precipitation and runoff records began Sept. 1, 1939. For long-time precipitation records, see National Weather Service records at Athens, Ga. (1865-1939) and Southern Piedmont Conservation Research Center (1940-72).

1972 DAILY AIR TEMPERATURE (degrees F)													WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min
1	51 39	41 30	76 49	61 33	79 50	76 46	88 62	86 66	85 65	69 50	70 48	53 33	2	55 36	42 36	75 54	58 35	81 54	82 46	90 66	90 70	88 60	72 49	75 56	62 29
3	54 35	44 32	54 33	72 36	75 58	84 51	88 64	92 71	92 63	74 52	76 62	66 29	4	51 45	38 25	60 32	66 42	72 54	88 54	88 62	92 71	93 66	75 58	73 50	69 34
5	58 30	52 21	52 33	66 38	76 50	92 60	79 68	89 72	76 68	76 58	66 44	70 54	6	49 28	46 25	58 30	77 40	76 47	92 64	79 63	84 71	79 63	79 54	64 47	70 46
7	56 29	54 33	67 28	74 57	76 53	86 64	81 59	92 71	83 59	76 56	64 48	58 37	8	55 25	45 27	58 40	67 45	74 61	86 61	86 58	90 68	88 58	80 48	64 44	48 43
9	60 40	51 26	65 30	67 34	76 59	89 65	84 61	93 64	89 70	80 44	69 34	64 44	10	60 57	50 25	65 30	59 32	72 48	87 65	83 60	88 68	80 68	70 56	70 39	75 59
11	60 50	55 31	64 39	64 47	70 47	76 56	87 62	81 70	82 56	72 51	65 50	62 50	12	68 38	42 38	75 34	81 62	75 47	80 48	50 64	86 70	88 53	82 46	68 48	50 48
13	68 63	46 37	74 40	83 63	66 60	85 58	92 70	86 66	90 53	80 59	57 50	57 48	14	65 42	60 33	68 47	84 63	80 63	86 62	88 65	88 64	91 60	62 56	46 48	60 52
15	45 19	58 29	77 39	87 62	80 62	84 62	88 67	91 66	93 68	81 67	59 38	52 37	16	30 11	50 41	65 48	82 64	78 53	87 61	89 68	77 69	94 66	78 53	45 37	39 28
17	42 14	48 39	56 36	76 51	77 52	87 62	88 68	88 68	86 68	83 57	54 33	42 17	18	58 20	45 36	58 32	78 45	87 55	86 66	89 67	93 65	82 69	68 48	56 31	50 23
19	65 33	36 31	70 40	78 51	70 55	73 68	88 68	96 65	93 68	74 46	52 46	61 21	20	65 41	53 30	74 40	84 58	74 58	76 68	89 65	88 71	87 67	56 35	56 38	64 51
21	64 55	54 24	73 52	78 51	77 59	85 66	93 63	86 68	84 58	60 37	52 40	60 55	22	62 50	64 35	66 51	70 50	81 55	76 60	96 70	86 61	90 58	72 40	52 36	59 52
23	65 54	43 36	63 40	80 44	77 60	79 60	86 70	85 66	88 60	75 53	47 31	56 50	24	68 56	69 36	60 33	80 47	84 58	85 59	96 73	68 68	85 66	76 51	52 26	54 46
25	62 34	73 51	46 36	66 48	88 61	87 58	91 70	91 70	85 63	68 42	43 30	60 44	26	58 27	70 43	64 29	66 40	77 62	87 68	90 71	87 69	90 70	67 53	50 33	48 33
27	65 34	44 38	65 49	73 37	72 60	84 67	86 72	89 68	92 69	58 53	52 32	53 28	28	62 53	72 34	76 55	73 42	69 60	82 66	89 70	88 67	91 68	63 53	63 40	64 32
29	63 47	77 47	73 57	72 53	78 63	79 60	85 72	87 68	89 70	74 52	45 40	55 38	30	50 39		69 48	76 52	80 64	86 66	84 71	88 65	75 54	70 52	45 40	58 46
31	51 30		52 36		78 57			84 68	85 63	69 50		63 53	31	57 38	52 33	65 40	73 47	76 56	84 61	88 67	88 68	73 63	73 51	60 41	58 41
1 AY.	47.6	43.0	52.4	60.4	66.5	72.5	77.3	78.1	75.2	61.8	50.5	45.4	MEAN	52.32	54.32	62.38	74.48	78.55	87.64	90.69	87.68	85.64	75.53	62.38	57.38

NOTES: STA AV based on 4 yr (1969-72) record period.

1972 SELECTED RUNOFF EVENT				WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)							
PRECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF DECEMBER 14 - 16, 1972											
12-14	RG 000001	0.002	12-14	3G 000001	0.0	0.0	12-14	1755	0.102	0.0	
	0.0			1200	0.0500	0.03		1800	0.111	0.0005	
				1230	0.2400	0.07		1830	0.017	0.0022	
				1338	0.0177	0.09		1850	0.056	0.0028	
				1342	0.5999	0.13		1858	0.067	0.0032	
WATERSHED CONDITIONS:				1500	0.0	0.13		1908	0.119	0.0040	
Dormant Coastal Bermudagrass				1700	0.0100	0.15		1916	0.158	0.0050	
-excellent cover.				1750	0.2160	0.39		1922	0.271	0.0061	
30 Day Antecedent Conditions:				1755	0.7200	0.39		1928	0.151	0.0073	
				1800	0.6000	0.44		1936	0.107	0.0083	
Date	Rainfall	Runoff									
(inches)	(inches)	(inches)									
11-14	0.00	0.0000		1806	1.5001	0.59		2000	0.0	0.0039	
11-19	1.10	0.0007		1836	0.2600	0.72		2022	0.003	0.0094	
11-25	0.90	0.0001		1845	0.7333	0.83		2038	0.030	0.0056	
11-26	0.04	0.0000		1905	0.6900	1.06		2100	0.009	0.0100	
11-28	0.01	0.0000		1911	1.5001	1.21		2108	0.0	0.0100	
11-30	0.20	0.0000									
12-05	0.53	0.0000		1915	1.4998	1.31		2116	0.015	0.0100	
12-06	0.43	0.0000		1920	0.7200	1.37		2126	0.015	0.0101	
12-08	0.08	0.0000		1932	0.7500	1.52		2135	0.155	0.0108	
12-10	0.03	0.0000		1940	0.6000	1.60		2149	1.359	0.0200	
12-12	0.03	0.0000		2000	0.0600	1.62		2159	2.853	0.0378	
12-13	0.12	0.0000									
				2100	0.1300	1.75		2203	3.402	0.0485	
				2115	0.1200	1.78		2213	4.075	0.0510	
				2132	0.8470	2.02		2230	3.543	0.1401	
				2144	0.3500	2.09		2254	3.557	0.2173	
				2152	2.1000	2.37		2328	1.740	0.2548	
				2205	0.3692	2.45		2346	1.319	0.3186	
				2212	2.6571	2.76		2400	1.075	0.3331	
				2305	0.1358	2.88		10	0.854	0.3413	
				2315	0.6000	2.98	12-15	25	0.883	0.3520	
				2325	0.1600	3.01		100	0.765	0.3757	
			12-15	2400	0.0	3.01		106	1.118	0.3804	
				25	0.0200	3.02		124	1.466	0.4085	
				113	0.1625	3.15		144	2.835	0.4274	
				118	1.9201	3.31		206	3.624	0.4587	
				156	0.3474	3.53		218	3.809	0.5365	
				212	0.1500	3.57		225	3.569	0.5604	
				232	0.4800	3.73		248	3.424	0.6335	
				256	0.0500	3.75		320	3.751	0.7327	
				309	0.3230	3.42		332	3.602	0.7705	
				315	0.8000	3.50		400	2.778	0.8477	
				328	0.4154	3.99		420	2.253	0.8508	
				430	0.0484	4.04		437	1.751	0.9202	
				439	0.4000	4.10		524	1.285	0.9527	
				448	0.0667	4.11		610	0.765	1.0237	
				558	0.0343	4.15		714	0.328	1.0544	
				702	0.0469	4.20		750	0.245	1.0633	
				830	0.0	4.20		816	0.216	1.0685	
				914	0.2591	4.39		824	0.266	1.0702	
				927	0.9692	4.60		844	0.280	1.0749	
				1000	0.1051	4.66		856	0.346	1.0781	
				1032	0.1687	4.75		902	0.504	1.0803	
								906	0.725	1.0824	
								910	0.771	1.0850	
								916	0.949	1.0895	
								938	1.518	1.1129	
								950	2.662	1.1345	
								1010	2.668	1.1804	
								1020	2.448	1.2026	
								1100	1.442	1.2697	
								1200	0.800	1.3276	
								1230	0.700	1.3470	
								1310	0.223	1.3628	
								1400	0.148	1.3708	
								1500	0.149	1.3785	
								1600	0.059	1.3839	
								1700	0.039	1.3864	
								1900	0.028	1.3881	
								1900	0.017	1.3893	
								2000	0.014	1.3501	
								2100	0.011	1.3507	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.051653.

BLACKSBURG, VIRGINIA CRAE CREEK WATERSHED (13007)

LOCATION: Montgomery County, Va., 2 mi. W. of Christiansburg, Va., New River. Lat. 37 deg. 07 min. 56 sec. N.; Long. 80 deg. 27 min. 30 sec. W.

AREA: 786.00 acres 1.23 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)												BLACKSBURG, VIRGINIA CRAE CREEK WATERSHED (13007)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972	P 3.06	3.93	1.71	4.95	4.71	6.24	5.08	1.95	3.31	2.40	4.83	3.56	45.45										
	Q 0.419	1.007	0.668	1.137	0.534	0.960	0.408	0.584	0.323	0.305	0.633	0.589	7.928										
STA AV	P 2.18	2.74	2.89	2.83	3.26	2.82	3.67	3.42	3.02	2.84	2.37	2.75	34.59										
	Q 0.599	0.733	0.953	0.750	0.513	0.923	0.257	0.307	0.211	0.278	0.265	0.438	5.624										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge												Maximum Volume for Selected Time Interval											
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days					Date	Date	6 Hours	12 Hours	1 Day	2 Days	8 Days				
Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1972	6-21	0.156	6-21	0.144	6-21	0.240	6-21	0.355	6-21	0.503	6-21	0.564	6-20	0.613	6-20	0.735							
MAXIMUMS FOR PERIOD OF RECORD																							
	8-21	0.230	10-25	0.207	10-25	0.347	10-25	0.542	10-25	0.590	10-25	0.635	9-3	0.730	3-27	1.760							
1966																							

NOTES: Watershed conditions: Cultivated, alfalfa and other hay crops, 28%; row crop, 10%; permanent pasture, usually good cover of native bluegrass combined with other grasses and clovers, 43%; farm woods predominantly hard wood, 13%; idle, 5%; roads, 15%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 137-5. Precipitation thickness weighted from rain gauges E-1, E-2, E-3 and E-4. Station average precipitation determined from record period from August 1957 through 1972. For long-time precipitation records, see National Weather Service records for Blacksburg, Virginia.

1972 DAILY AIR TEMPERATURE (degrees F)												BLACKSBURG, VIRGINIA CRAE CREEK WATERSHED (13007)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min											
1	39 24	38 22	67 48	53 30	72 52	64 39	83 61	82 64	71 53	60 33	65 46	38 27											
2	46 30	31 27	66 48	38 27	73 57	74 45	84 61	80 64	81 50	67 35	65 51	56 30											
3	48 28	32 23	48 21	61 27	64 50	80 48	79 64	81 64	81 56	66 39	68 54	56 34											
4	48 34	23 10	47 21	54 36	63 47	79 53	78 65	83 65	76 60	56 51	56 41	64 40											
5	48 20	30 9	39 23	61 30	65 43	82 60	64 50	76 60	60 54	60 51	56 35	66 44											
6	37 17	36 20	46 19	68 40	71 44	72 52	68 45	76 57	69 50	56 50	52 32	62 31											
7	40 23	32 12	61 35	67 34	75 50	77 56	74 43	83 66	76 43	58 45	53 35	39 22											
8	48 24	30 8	54 25	33 51	65 56	58 49	81 47	80 61	60 54	67 47	60 24	46 36											
9	48 32	39 18	40 17	50 18	67 46	81 59	80 54	76 60	77 54	60 40	45 36	62 38											
10	54 45	36 20	41 26	60 32	63 42	67 44	82 60	76 53	71 49	57 33	56 34	61 43											
11	56 46	50 26	52 22	63 47	68 35	70 37	78 59	69 57	83 45	64 33	50 37	43 34											
12	57 33	39 26	73 35	57 47	70 42	78 46	74 62	84 60	82 56	65 44	54 33	47 30											
13	60 37	39 32	75 51	77 50	64 50	80 52	86 62	84 56	70 50	58 36	53 44												
14	36 22	48 28	56 34	63 54	70 53	88 64	86 62	86 63	82 56	72 49	63 42	44 33											
15	22 0	47 33	61 34	80 53	70 54	85 61	83 62	79 58	78 58	58 38	41 23	35 26											
16	11-11	44 28	60 40	75 54	68 48	81 62	83 62	82 54	84 57	57 38	38 21	26 8											
17	40 8	36 27	62 34	68 49	70 50	68 62	87 64	80 57	80 57	68 46	45 25	20 7											
18	58 26	30 27	50 34	73 42	70 48	75 62	87 65	82 62	84 62	47 38	44 26	44 12											
19	50 36	27 17	56 36	77 51	68 52	73 63	88 64	83 55	83 55	40 23	38 33	53 30											
20	46 40	25 12	62 34	78 54	65 54	68 63	92 65	74 57	69 51	44 19	34 33	55 40											
21	60 41	47 18	67 45	55 40	71 56	68 56	90 67	76 53	73 52	51 24	39 24	44 36											
22	41 37	46 25	53 36	54 40	73 58	60 49	92 69	78 54	80 48	67 36	34 26	45 42											
23	56 40	30 20	37 24	73 45	65 56	58 49	91 67	76 55	81 52	64 47	30 24	46 36											
24	45 44	47 29	32 21	58 45	76 47	56 48	90 68	80 60	80 54	67 45	46 21	44 37											
25	56 27	58 36	32 20	50 36	75 49	76 50	86 66	82 61	82 54	50 40	36 24	43 38											
26	49 20	54 26	47 20	56 32	65 42	78 51	87 60	80 61	84 60	55 39	43 31	41 30											
27	47 29	47 23	45 31	64 34	67 38	82 54	79 65	80 61	77 64	50 34	53 29	35 26											
28	46 29	66 33	60 41	66 40	70 46	74 60	72 65	77 55	66 62	57 42	55 32	48 31											
29	40 24	73 48	44 35	71 48	77 53	78 55	75 57	80 58	73 60	57 44	43 25	35 29											
30	38 25		50 36	65 50	73 58	65 54	70 57	80 56	63 36	60 38	32 26	51 32											
31	38 18		40 32		72 43		83 60	77 57		52 42		60 42											
AV.	46 27	44 23	52 32	62 40	65 55	76 55	78 59	78 58	58 55	40 40	32 48	48 32											
MEAN	36.8	32.1	41.7	51.3	59.1	63.7	71.2	69.1	65.1	45.3	40.5	39.6											
STA AV	40 24	40 23	51 31	63 42	70 50	78 57	81 61	79 60	73 54	63 43	51 33	44 28											

NOTES: Temperature data obtained at the E-3 rain gage location. STA AV based on 8 yr (1965-72) record period.

1972	DAILY PRECIPITATION (inches)				BLACKSBURG, VIRGINIA CRAB CREEK WATERSHED (13007)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.27	0.08S	0.0	0.02	0.0	0.0	0.0	0.67	0.0	0.0	0.54	0.0
2	0.07	0.08S	0.37	0.0	0.44	0.0	0.0	0.14	0.0	0.0	0.0	0.0
3	0.0	0.76S	0.0	0.0	1.29	0.0	0.0	0.0	0.05	0.0	0.02	0.0
4	0.38	0.0	0.0	0.07	0.06	0.0	0.57	0.18	0.0	0.27	0.05	0.0
5	0.09	0.0	0.02	0.0	0.0	0.0	0.36	0.0	0.38	0.79	0.0	0.0
6	0.0	0.16S	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.11	0.0	0.20
7	0.0	0.03S	0.0	2.03	0.0	0.0	0.0	0.0	0.0	0.02	1.04	0.0
8	0.0	0.0	0.0	0.02	0.60	0.0	0.0	0.0	0.0	0.0	0.01	0.08
9	0.17	0.0	0.0	0.0	0.03	0.0	0.0	0.03	0.0	0.0	0.0	0.31
10	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.86
11	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.06
12	0.0	0.18	0.0	0.70	0.0	0.0	0.05	0.01	0.0	0.03	0.0	0.02
13	0.17	0.39	0.0	0.52	0.31	0.0	0.0	0.0	0.0	0.18	0.01	0.0
14	0.03	0.0	0.09	0.44	0.57	0.01	0.01	0.0	0.07	0.0	1.22	0.05
15	0.0	0.0	0.0	0.08	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.75
16	0.0	0.0	0.48	0.06	0.02	0.29	0.0	0.0	0.0	0.09	0.0	0.35
17	0.0	0.22S	0.03	0.0	0.0	1.11	0.0	0.25	0.0	0.01	0.0	0.0
18	0.0	0.17S	0.0	0.0	0.0	0.43	0.01	0.06	0.0	0.0	0.0	0.0
19	0.01S	0.0	0.0	0.0	0.39	0.03	0.45	0.0	0.0	0.25	0.56	0.0
20	0.78	0.0	0.0	0.07	0.02	1.61	0.0	0.0	0.0	0.0	0.02	0.01
21	0.07	0.0	0.49	0.07	0.01	2.03	0.47	0.0	0.0	0.0	0.0	0.87
22	0.06	0.03	0.1	0.0	0.05	0.0	0.03	0.0	0.0	0.02S	0.16	0.0
23	0.07	0.19H	0.01S	0.0	0.13	0.0	0.01	0.0	0.0	0.0	0.0	0.01
24	0.0	0.94	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.17	0.0	0.0
25	0.04	0.09	0.03S	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.01
26	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.04	0.10
27	0.57	0.0	0.0	0.0	0.0	0.0	0.30	0.05	0.22	0.29	0.0	0.0
28	0.16	0.0	0.02	0.0	0.0	0.39	0.10	0.0	0.27	0.30	0.01	0.0
29	0.0	0.0	0.0	0.05	0.0	0.02	1.10	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.34	0.05	0.88	0.0	0.58	0.0	0.18H	0.01
31	0.0	0.09S	0.0	0.05	0.05	0.0	0.79	0.0	0.01	0.0	0.0	0.01
TOTAL	3.06	3.93	1.71	4.95	4.71	6.24	5.08	1.85	3.31	2.40	4.83	3.56
STA AV	2.18	2.74	2.89	2.83	3.26	2.82	3.87	3.42	3.02	2.84	2.37	2.75

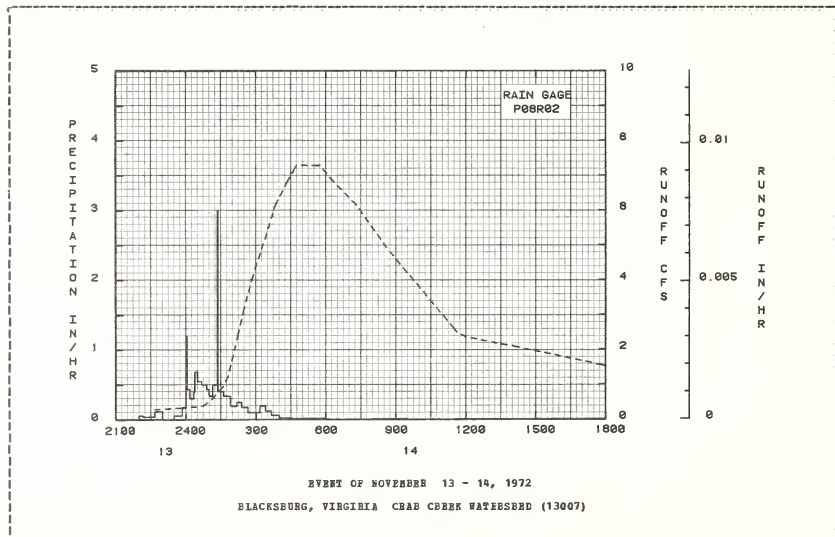
NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1, R-2, R-3 and R-4. STA AV based on record period August 1957 through 1972.

1972	MEAN DAILY DISCHARGE (cfs)				BLACKSBURG, VIRGINIA CRAB CREEK WATERSHED (13007)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.257	0.542	1.170	0.436	0.367	0.281	0.418	2.891	0.341	0.363	0.539	0.520
2	0.336	0.563	1.177	0.410	0.480	0.254	0.371	1.306	0.341	0.318	0.367	0.447
3	0.268	1.386	1.456	0.388	2.160	0.254	0.341	0.983	0.341	0.301	0.321	0.417
4	0.384	1.085	1.007	0.403	1.477	0.254	0.460	0.866	0.341	0.304	0.252	0.356
5	0.375	0.758	0.957	0.388	0.782	0.254	1.189	0.846	0.350	0.959	0.254	0.376
6	0.275	0.727	0.820	0.388	0.603	0.254	0.507	0.728	0.368	0.490	0.254	0.515
7	0.254	0.757	0.848	0.503	0.545	0.254	0.373	0.662	0.341	0.412	0.377	0.392
8	0.254	0.594S	0.805S	4.453	0.744	0.254	0.332	0.607	0.341	0.332	1.248	0.376
9	0.269	0.563S	0.606S	1.290	0.810	0.254	0.301	0.588	0.326	0.308	0.520	0.572
10	0.341	0.563	0.618S	1.075	0.487	0.254	0.301	0.545	0.301	0.301	0.420	2.982
11	0.302	0.616	0.618S	0.974	0.421	0.254	0.301	0.542	0.301	0.301	0.382	1.423
12	0.301	0.591	0.616	2.278	0.378	0.254	0.301	0.539	0.301	0.301	0.341	1.042
13	0.296	1.914	0.633	2.173	0.393	0.254	0.287	0.499	0.301	0.301	0.331	0.905
14	0.327	1.070	0.652	3.645	0.893	0.254	0.254	0.482	0.301	0.301	2.559S	0.822
15	0.258	0.946	0.618	2.047	0.770	0.244	0.254	0.466	0.301	0.281	0.511	2.736
16	0.222	0.860	0.738	1.626	0.686	0.240	0.254	0.461	0.301	0.287	0.686	1.220
17	0.222	0.840	0.844	1.239	0.503	0.493	0.242	0.470	0.301	0.253	0.550	0.728
18	0.222	0.835	0.635	1.075	0.419	0.520	0.222	0.483	0.301	0.254	0.475	0.715
19	0.261	0.696	0.592	0.986	0.487	0.381	0.222	0.554	0.301	0.327	1.714	0.783
20	0.409	0.618	0.545	0.927	0.632	0.600	0.222	0.553	0.301	0.266	1.251	0.930
21	1.047	0.641	0.585	0.927	0.455	18.663	0.245	0.464	0.301	0.254	0.793	1.656
22	0.719	0.558	0.967	1.817	0.388	1.663	0.245	0.425	0.301	0.254	0.675	2.989
23	0.665	0.684	0.594	1.117	0.411	0.563	0.222	0.388	0.301	0.254	0.605	1.537
24	0.599	2.178	0.517	0.899	0.367	0.814	0.211	0.388	0.288	0.259	0.518	1.162
25	0.518	2.884	0.499	0.821S	0.326	0.727	0.348	0.388	0.295	0.254	0.658	1.022
26	0.392	0.479	0.499	0.622	0.286	0.624	0.436	0.388	0.298	0.254	1.025	0.973
27	0.437	2.237	0.499	0.494	0.254	0.535	0.475	0.388	0.444	0.243	0.636	0.839
28	1.305	1.657	0.495	0.406	0.254	0.661	0.495	0.376	0.363	0.451	0.516	0.768
29	0.890	1.314	0.470	0.394	0.254	0.582	0.671	0.341	0.684	0.309	0.505	0.707
30	0.801	0.470	0.396	0.275	0.444	1.203	0.341	0.954	0.260	0.569	0.682	0.682
31	0.622	0.456	0.0	0.357	0.0	1.766	0.341	0.0	0.254	0.0	0.0	0.682
MEAN	0.4461	1.1469	0.7114	1.2520	0.5686	1.0572	0.4349	0.6226	0.3556	0.3253	0.6566	1.0104
INCHES	0.419	1.007	0.668	1.137	0.534	0.960	0.408	0.584	0.323	0.305	0.633	0.949
STA AV	0.599	0.733	0.953	0.750	0.513	0.323	0.257	0.307	0.211	0.278	0.265	0.438

NOTES: To convert CFS to IN/DAV, multiply by 0.030281. STA AV based on record period August 1957 through 1972.

1972 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA CRAB CREEK WATERSHED (13007)									
ANTICIPATED CONDITIONS			RAINFALL				SURCFP					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF NOVEMBER 13 - 14, 1972												
11-13	RG P08R02 0.02	0.010	11-13	RG P08R02 2200	0.0	0.0	11-13	2240	0.301	0.0		
				2210	0.0600	0.01		2400	0.349	0.0005		
				2240	0.0400	0.03		11-14	44	0.404	0.0008	
				2300	0.1200	0.07		107	0.586	0.0010		
				2330	0.0	0.07		116	0.713	0.0011		
WATERSHED CONDITIONS:												
Permanent pasture, blue grass												
combined with other native												
grasses and clover, good												
cover, 43%; row crop, 10%;												
alfalfa and other hay, good												
cover, 28%; idle with weeds,												
grasses, and vines, good												
cover, 5%; bare woods												
predominately hard wood, 13%;												
paved roads, 1%.												
11-14			11-14	3	1.2000	0.18		231	3.249	0.0038		
				10	0.4286	0.23		250	4.034	0.0053		
				20	0.3000	0.28		302	4.494	0.0064		
				23	0.4001	0.30		324	5.199	0.0066		
				30	0.6857	0.38		350	6.174	0.0117		
				41	0.5454	0.48		420	6.824	0.0158		
				53	0.5000	0.58		444	7.299	0.0194		
				100	0.4286	0.63		544	7.291	0.0286		
				109	0.3333	0.68		620	6.808	0.0340		
				121	0.5000	0.78		718	6.150	0.0419		
				122	3.0002	0.83		836	4.922	0.0510		
				137	0.4000	0.93		1136	2.504	0.0651		
				155	0.3334	1.03		1200	2.346	0.0663		
				211	0.1875	1.08		1418	2.053	0.0727		
				223	0.2500	1.13		1620	1.522	0.0818		
240	0.1764	1.18	2120	1.316	0.0872							
310	0.1000	1.23	2400	1.213	0.0915							
325	0.2000	1.28										
340	0.1200	1.31										
400	0.0600	1.33										
430	0.0200	1.34										
515	0.0133	1.35										
600	0.0133	1.36										
800	0.0	1.36										
930	0.0067	1.37										

NOTES: To convert CFS to IN/HR, multiply by 0.0012617.



BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)

LOCATION: Floyd County, Va.; 1 mi. W. of Terrys Fork, Va. Little River, New River. Lat. 37 deg. 02 min. 45 sec. N.; Long. 80 deg. 16 min. 43 sec. W.

AREA: 893.00 acres 1.40 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)												
BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
P	2.67	4.00	2.25	4.32	5.57	9.63	3.54	1.83	3.21	2.14	5.08	3.64
Q	1.394	1.913	1.391	1.876	2.054	3.965	1.905	1.060	0.856	1.023	1.881	2.044
STA A V	2.17	2.92	2.92	2.99	3.62	2.98	3.76	3.47	3.40	3.14	2.59	2.79
Q	1.667	2.052	2.101	1.751	1.557	1.179	0.548	0.858	0.999	1.176	1.260	1.497
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS												
Maximum Discharge Date Date 1 Hour 2 Hours 6 Hours 12 Hours 1 Day 2 Days 8 Days												
1972	6-21	0.506	6-21	0.485	6-21	0.798	6-21	1.506	6-20	2.203	6-20	2.521
											6-20	2.734
											6-17	3.161
MAXIMUMS FOR PERIOD OF RECORD												
	9-30	1.160	9-30	0.620	9-30	0.910	9-30	1.620	6-20	2.203	9-29	2.590
	1959		1959		1959		1959		1972		1959	
											1959	

NOTES: Watershed conditions: Permanent pasture, usually a fair cover of native grasses, 33%; farm woods, a mixture of hardwoods and conifers, 34%; row crops, 4%; hay, 20%; idle land, 7%; roads, 2%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1154, p. 13.8-5. Precipitation: Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from August 1957 through 1972. For long-time precipitation records, see National Weather Service records at Blacksburg, Virginia.

1972 DAILY PRECIPITATION (inches)												
BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.08L	0.13S	0.08	0.21	0.0	0.0	0.0	0.23	0.0	0.0	0.44	0.0
2	0.12	0.11S	0.24	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.0
3	0.0	0.81S	0.01	0.01	2.05	0.0	0.0	0.01	0.06	0.0	0.01	0.0
4	0.35	0.0	0.0	0.07	0.04	0.0	1.45	0.10	0.0	0.04	0.08	0.0
5	0.09	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.56	0.41	0.0	0.0
6	0.0	0.08S	0.0	0.0	0.01	0.03	0.0	0.0	0.0	0.57	0.0	0.44
7	0.0	0.0	0.0	1.70	0.0	0.0	0.0	0.09	0.0	0.01	0.50	0.0
8	0.0	0.0	0.01	0.02	0.46	0.0	0.0	0.0	0.0	0.0	0.01	0.07
9	0.14	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.18
10	0.05	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48
11	0.11	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.09
12	0.0	0.45	0.0	0.79	0.0	0.0	0.17	0.08	0.0	0.02	0.01	0.02
13	0.19	0.39	0.01	0.29	0.21	0.0	0.02	0.01	0.0	0.0	0.03	0.0
14	0.02	0.0	0.20	0.21	0.83	0.19	0.25	0.0	0.10	0.0	1.54	0.01
15	0.0	0.02	0.0	0.01	0.59	0.0	0.05	0.0	0.0	0.0	0.0	0.95
16	0.0	0.0	0.66	0.0	0.02	0.39	0.0	0.0	0.0	0.14	0.0	0.0
17	0.0	0.31S	0.01	0.0	0.0	0.50	0.0	0.35	0.0	0.05	0.0	0.0
18	0.0	0.23S	0.0	0.0	0.17	0.40	0.0	0.02	0.05	0.0	0.0	0.0
19	0.01	0.03S	0.0	0.0	0.52	0.12	0.0	0.55	0.0	0.33	1.11E	0.01
20	0.54	0.0	0.0	0.01	0.08	2.86	0.0	0.0	0.0	0.0	0.01	0.01
21	0.05	0.0	0.53	0.13	0.0	4.24E	0.0	0.0	0.0	0.0	0.0	0.94
22	0.06	0.04	0.20	0.65	0.11	0.0	0.0	0.0	0.0	0.0	0.02S	0.24
23	0.13	0.12E	0.81S	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.01
24	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.23	0.02	0.02	0.0	0.01
25	0.05	0.09	0.06S	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.02
26	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.0	0.02	0.10
27	0.52	0.0	0.0	0.0	0.0	0.0	0.17	0.07	0.32	0.17	0.0	0.0
28	0.16	0.0	0.02	0.0	0.0	0.40	0.05	0.0	0.42	0.37	0.01	0.0
29	0.0	0.0	0.0	0.18	0.0	0.09	0.43	0.0	1.42	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.01	0.0	0.35E	0.0	0.21	0.0	0.22E	0.04
31	0.0	0.22E	0.0	0.29	0.0	0.29	0.0	0.0	0.02	0.0	0.0	0.0
TOTAL	2.67	4.00	2.25	4.32	5.57	9.63	3.54	1.83	3.21	2.14	5.08	3.64
STA A V	2.17	2.92	2.92	2.99	3.62	2.98	3.76	3.47	3.40	3.14	2.59	2.79

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA A V based on record period August 1957 through 1972.

1972 MBAN DAILY DISCHARGE (cfs)					BLACKSBURG, VIRGINIA					BRUSH CREEK WATERSHED (13008)				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	1.323	1.581	1.572	1.706	1.376	1.368	1.625	2.420	0.520	1.239	2.102	1.685		
2	1.551	1.645	2.217	1.502	1.368	1.276	1.520	1.636	0.906	1.072	1.435	1.569		
3	1.342	4.109	2.156	1.363	8.990	1.217	1.615B	1.511	0.936	0.986	1.234	1.508		
4	1.933	2.473	1.701B	1.392	5.113	1.201	4.551E	1.519	0.952	1.047	1.285	1.487		
5	1.715	1.821	1.466	1.298	2.490	1.172	20.88EE	1.430	1.743	1.788	1.138	1.455		
6		1.316	1.824	1.453	1.251	2.026	1.234	2.379	1.335	1.150	2.672	1.111	2.608	
7	1.269	1.809	1.359	6.624	1.796	1.209	1.937	1.327	0.948	1.739	2.342	1.708		
8	1.261	1.699	1.400	6.670	2.628	1.122	1.707	1.350	0.909	1.229	3.163	1.590		
9	1.463	1.596	1.436	2.545	2.106	1.107	1.581	1.182	0.898	1.074	1.526	1.976		
10	1.581	1.586	1.513	2.108	1.676	1.091	1.513	1.158	0.827	1.016	1.364	3.477		
11	1.601	1.517	1.507	1.872	1.533	1.026	1.511	1.197	0.813	1.016	1.295	2.407		
12	1.388	1.895	1.395	5.231	1.460	1.036	1.843	1.168	0.812	1.050	1.248	2.161		
13	1.511	5.787	1.324	3.207	1.567	0.998	1.651	1.197	0.809	1.060	1.210	1.954		
14	1.771	2.257	1.603	3.745	4.855	1.067	1.959	1.187	0.836	1.016	11.083	1.798		
15	1.327	1.991	1.340	2.641	5.128	1.006	1.602	1.142	0.873	0.976	2.521	7.352		
16	1.014	1.764	2.543	2.270	3.195	1.189	1.533	1.098	0.881	1.155	2.043	2.950		
17	1.124	1.751	1.126	1.893	2.283	2.666	1.405	1.391	0.785	1.105	1.847	1.556		
18	1.340	1.673	1.594	1.682	2.332	1.193	1.371	1.403	0.824	1.020	1.666	1.903		
19	1.467	1.605	1.454	1.627	3.058	1.333	1.305	1.524	0.790	1.578	6.579	1.911		
20	2.191	2.212	1.385	1.592	3.063	8.476	1.238	1.469	0.783	1.193	4.042	2.110		
21	2.706	1.800	1.451	1.750	2.341	93.198	1.208	1.102	0.774	1.124	2.193	3.775		
22	1.968	2.792	3.825	3.591	2.162	5.442	1.201	1.037	0.749	1.093	1.521	7.581		
23	2.026	1.806	1.864	1.967	2.175	3.039	1.169	1.016	0.700	1.063	1.643	3.117		
24	1.600	4.045	1.574	1.694	1.734	2.107	1.114	1.216	0.721	1.059	1.551	2.504		
25	1.696	3.937	1.549	1.640	1.688E	2.163	1.233	1.163	0.770	1.063	2.460	2.309		
26	1.505	6.981	1.562	1.518	1.526B	1.861	1.232	1.102	0.737	1.043	3.385	2.279		
27	1.981	3.240	1.531	1.438	1.387B	1.565	1.481	1.133	1.094	1.076	1.552	2.026		
28	3.463	2.491	1.484	1.439	1.317	2.264	1.542	1.069	1.412	2.169	1.755	1.907		
29	2.179	2.134	1.423	1.584	1.426	1.564	1.983	0.955	0.740	1.283	1.635	1.812		
30	1.901	1.364	1.564	1.440	1.754	2.169	0.964	2.076	1.168	1.638	1.861			
31	1.610		1.631		1.811		2.158	0.930		1.135		1.877		
MBAN	1.6877	2.4753	1.6639	2.3467	2.4861	4.5550	2.3052	1.2824	1.0708	1.2298	2.3523	2.4738		
INCHES	1.394	1.913	1.391	1.876	2.054	3.565	1.905	1.060	0.856	1.023	1.881	2.084		
STA AV	1.667	2.052	2.101	1.751	1.557	1.179	0.948	0.858	0.999	1.176	1.260	1.897		

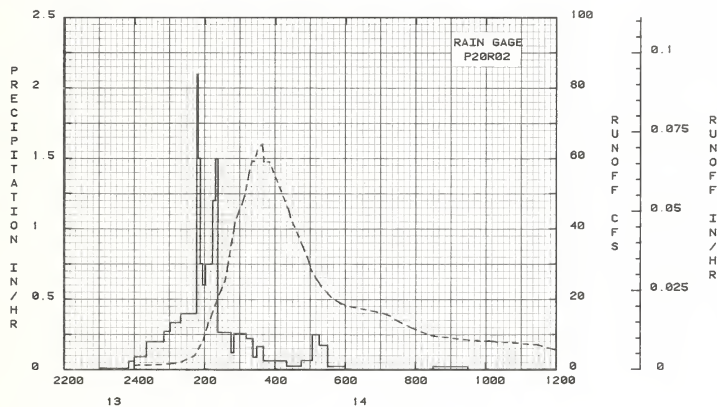
NOTES: To convert CFS to IS/DAT, multiply by 0.026652. STA AV based on record period August 1957 through 1972.

1972 SELECTED RUNOFF EVENT					BLACKSBURG, VIRGINIA					BRUSH CREEK WATERSHED (13008)				
ANTICEDMENT CONDITIONS			RAINFALL			RUNOFF								
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)				
EVENT OF NOVEMBER 13 - 14, 1972														
RG P20R02														
11-13 0.03 0.032 11-13 2300 0.0 0.0 11-13 2400 1.268 0.6														
2350 0.0120 0.01 11-14 28 1.369 0.0007														
2400 0.0601 0.02 46 1.459 0.0012														
20 0.0500 0.05 100 1.684 0.0016														
35 0.2000 0.10 111 1.918 0.0020														
WATERSHED CONDITIONS:														
Permanent pasture of native														
grasses, good cover, 33%;														
woods, mixture of pine and														
hardwood with considerable														
undergrowth, good cover,														
34%; hay, 20%; row crop, 4%;														
idle land, 7%; roads, 2%.														
148 2.1003 0.55 158 8.527 0.0054														
152 1.4599 0.65 200 9.734 0.0058														
156 0.7500 0.70 205 12.525 0.0068														
201 0.6000 0.75 206 13.336 0.0070														
209 0.7499 0.65 210 14.56 0.0060														
213 0.7500 0.90 214 16.712 0.0092														
216 1.2001 1.00 218 18.468 0.0105														
222 1.4999 1.10 230 23.429 0.0152														
245 0.2609 1.20 234 24.965 0.0170														
250 0.1199 1.21 239 25.264 0.0195														
311 0.2572 1.30 245 35.802 0.0232														
322 0.2181 1.34 249 39.403 0.0260														
328 0.0657 1.35 251 41.726 0.0274														
340 0.1637 1.38 256 43.978 0.0313														
400 0.0600 1.40 308 45.551 0.0418														
420 0.0600 1.42 316 56.782 0.0496														
445 0.0240 1.43 320 55.245 0.0535														
504 0.0632 1.45 324 55.204 0.0583														
516 0.2500 1.50 329 62.325 0.0638														
530 0.1714 1.54 337 64.066 0.0731														

NOTES: To convert CIS to IS/HR, multiply by 0.0011105.

1972	SELECTED RUNCFF EVENT			BLACKSBURG, VIRGINIA BEUSE CREEK WATERSHED (13008)						
ANTECEDENT CONDITIONS			RAINFALL			RUNCFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF NOVEMBER 13 - 14, 1972 (CONTINUED)										
			11-14	600	0.0200	1.55	11-14	339	61.941	0.0756
				830	0.0	1.55		340	58.907	0.0766
				930	0.0200	1.57		346	58.952	0.0832
								350	58.853	0.0875
								422	45.544	0.1183
								426	43.149	0.1216
								447	35.009	0.1369
								456	31.497	0.1424
								500	29.246	0.1448
								501	26.733	0.1453
								503	27.833	0.1463
								510	25.906	0.1498
								519	23.601	0.1500
								536	20.530	0.1609
								550	18.963	0.1660
								600	18.198	0.1695
								655	16.298	0.1870
								706	15.920	0.1903
								717	15.145	0.1935
								726	14.056	0.1959
								737	13.056	0.1987
								801	11.229	0.2041
								828	9.563	0.2093
								932	8.302	0.2199
								1004	8.050	0.2248
								1020	7.798	0.2271
								1028	7.798	0.2283
								1046	7.564	0.2309
								1128	6.906	0.2365

NOTES: To convert CFS to IN/HR, multiply by 0.0011105.



EVENT OF NOVEMBER 13 - 14, 1972
BLACKSBURG, VIRGINIA BEUSE CREEK WATERSHED (13008)

BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)

LOCATION: Halifax County, Va., 3.5 mi. SW of Tuberville, Va., Winns Creek, Dan River. Lat. 36 deg. 35 min.
18 sec. N.; Long. 79 deg. 05 min. 19 sec. W.

AREA: 1471.00 acres 2.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972	P 1.33	4.12	2.39	3.19	6.23	6.81	3.17	1.66	5.62	5.68	5.78	3.84	45.82
	Q 0.600	1.271	0.842	1.138	1.770	1.559	0.534	0.303	0.538	1.872	1.689	1.820	13.936
STA AV	P 2.80	3.41	3.29	2.84	3.94	3.30	3.83	4.19	3.03	3.38	2.76	3.08	39.85
	Q 0.875	1.207	1.214	0.943	0.900	0.623	0.440	0.534	0.387	0.719	0.592	0.635	9.069
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Basins Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	10-5	0.430	10-5	0.362	10-5	0.588	10-5	0.965	10-5	1.085	10-5	1.160	10-5
												1.288	9-25
													1.520
MAXIMUMS FOR PERIOD OF RECORD													
	10-10	1.120	10-10	0.710	10-10	1.030	10-10	1.410	10-10	1.510	10-10	1.580	10-10
	1959	1959	1959	1959	1959	1959	1959	1959	1959	1959	1959	1955	1.620
													10-10
													1.910

NOTES: Watershed conditions: Fair woods, mixture of hardwoods and conifers, with pine predominating, 58%; cultivated, 18%; pasture, native grass mixture, usually fair cover, 85% idle, 16%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, p. 13.010-5. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 13.010-8. Precipitation: Thiessen weighted B-1, B-2, and B-3. Station averages determined from continuous records from Jan. 1958 through 1972. For long-time precipitation records, see National Weather Service records at Halifax (1 mile N), Virginia.

1972	DAILY PRECIPITATION (inches)					BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.235	0.0	0.06	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.25	0.0
2	0.10	0.635	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
3	0.0	0.81	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.02	0.0
4	0.07	0.01	0.0	0.0	0.0	0.18	0.0	0.04	0.0	0.0	0.0	0.01	0.0
5	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	1.88	3.53	0.0	0.0
6	0.0	0.04	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.62	0.0	0.101
7	0.0	0.01	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.38	0.0
8	0.0	0.0	0.17	0.06	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.248
9	0.17	0.0	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.128
10	0.23	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
11	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
12	0.0	0.55	0.0	0.42	0.0	0.0	0.0	1.48	0.0	0.0	0.0	0.0	0.04
13	0.19	0.58	0.0	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.01
14	0.03	0.0	0.03	0.29	1.92	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.27
15	0.0	0.0	0.0	0.05	0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.44
16	0.0	0.0	1.02	0.04	0.01	0.0	0.72	0.17	0.0	0.25	0.01	0.01	0.01
17	0.0	0.21	0.02	0.0	0.07	0.21	0.0	0.53	0.08	0.0	0.75	0.0	0.0
18	0.0	0.375	0.0	0.0	0.15	0.11	0.0	0.01	0.0	0.0	0.01	0.0	0.0
19	0.0	0.115	0.0	0.0	0.04	0.17	0.0	0.28	0.0	0.52	1.122	0.0	0.0
20	0.0	0.0	0.0	0.0	0.03	0.89	0.0	0.0	0.0	0.0	0.022	0.0	0.0
21	0.11	0.0	0.03	0.01	0.0	3.76	0.01	0.0	0.21	0.0	0.0	1.00	0.0
22	0.04	0.0	0.60	0.83	0.14	0.01	0.0	0.0	0.0	0.0	0.0	0.10	0.0
23	0.0	0.278	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.04	0.0	0.02	0.0
24	0.0	0.008	0.0	0.02	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.04	0.093	0.015	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.878	0.0
26	0.0	0.171	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.151	0.10
27	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.03	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	1.52	0.0	0.38	0.02	0.67	0.0	0.0	0.0
29	0.0	0.0	0.0	0.068	0.0	0.01	0.13	0.0	1.53	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.12	0.02	0.14	0.0	0.58	0.0	0.48	0.0	0.0
31	0.0	0.50	0.0	0.37	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.37	0.0
TOTAL	1.33	4.12	2.39	3.19	6.23	6.81	3.17	1.66	5.62	5.68	5.78	3.84	45.82
STA AV	2.80	3.41	3.29	2.84	3.94	3.30	3.83	4.19	3.03	3.38	2.76	3.08	39.85

NOTES: Precipitation amounts are Thiessen weighted values from rain gauges B-1, B-2, and B-3. STA AV based on record period January 1958 through 1972.

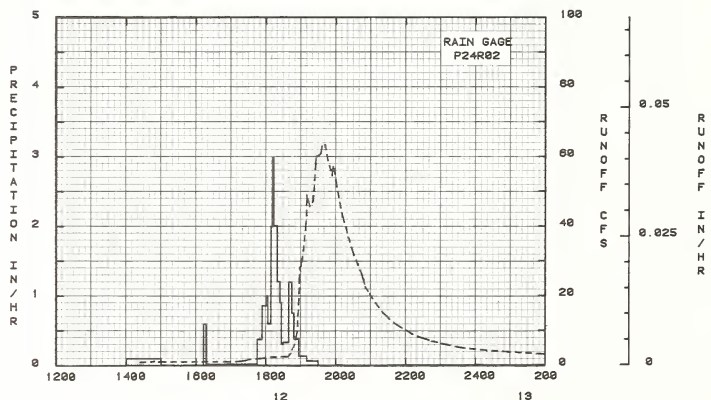
1972 REAN DAILY DISCHARGE (cfs)													BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.083	1.047	1.605	1.666	1.335	1.327	1.064	0.827	0.586	1.151	1.272	2.749	1	1.083	1.047	1.605	1.666	1.335	1.327	1.064	0.827	0.586	1.151	1.272	2.749
2	1.155	1.630	1.587	1.588	1.300	1.131	0.537	0.703	0.586	0.892	1.125	2.175	2	1.155	1.630	1.587	1.588	1.300	1.131	0.537	0.703	0.586	0.892	1.125	2.175
3	1.083	0.644	1.552	1.450	7.663	1.119	0.856	0.616	0.583	0.835	1.050	1.965	3	1.083	0.644	1.552	1.450	7.663	1.119	0.856	0.616	0.583	0.835	1.050	1.965
4	1.159	5.072	1.458	1.385	4.494	1.089	0.825	0.585	0.577	0.802	1.083	1.852	4	1.159	5.072	1.458	1.385	4.494	1.089	0.825	0.585	0.577	0.802	1.083	1.852
5	1.213	2.630	1.420	1.335	2.229	1.072	1.162	0.526	3.286	69.421	1.019	1.772	5	1.213	2.630	1.420	1.335	2.229	1.072	1.162	0.526	3.286	69.421	1.019	1.772
6	1.087	2.239	1.335	1.335	1.858	1.077	0.879	0.522	0.830	8.146	1.023	1.806	6	1.087	2.239	1.335	1.335	1.858	1.077	0.879	0.522	0.830	8.146	1.023	1.806
7	1.068	2.101	1.337	1.433	1.703	1.063	0.800	0.519	0.720	5.382	1.047	1.626	7	1.068	2.101	1.337	1.433	1.703	1.063	0.800	0.519	0.720	5.382	1.047	1.626
8	1.023	1.838	1.487	2.466	2.500	0.980	0.775	0.475	0.705	2.218	4.480	1.718	8	1.023	1.838	1.487	2.466	2.500	0.980	0.775	0.475	0.705	2.218	4.480	1.718
9	1.109	1.696	1.335	1.618	3.062	0.567	0.722	0.432	0.693	1.630	1.888	1.937	9	1.109	1.696	1.335	1.618	3.062	0.567	0.722	0.432	0.693	1.630	1.888	1.937
10	1.427	1.582	1.300	1.498	1.922	1.038	0.715	0.415	0.656	1.341	1.545	1.832	10	1.427	1.582	1.300	1.498	1.922	1.038	0.715	0.415	0.656	1.341	1.545	1.832
11	1.582	1.498	1.246	1.498	1.703	0.966	0.725	0.401	0.664	1.227	1.410	1.715	11	1.582	1.498	1.246	1.498	1.703	0.966	0.725	0.401	0.664	1.227	1.410	1.715
12	1.443	1.654	1.246	2.148	1.606	0.574	5.658	0.400	0.664	1.203	1.303	1.691	12	1.443	1.654	1.246	2.148	1.606	0.574	5.658	0.400	0.664	1.203	1.303	1.691
13	1.465	13.912	1.246	5.687	1.526	0.974	1.817	0.399	0.641	1.136	1.286	1.691	13	1.465	13.912	1.246	5.687	1.526	0.974	1.817	0.399	0.641	1.136	1.286	1.691
14	1.418	3.247	1.266	11.948	24.935	0.956	0.568	0.401	0.616	1.063	10.712	1.854	14	1.418	3.247	1.266	11.948	24.935	0.956	0.568	0.401	0.616	1.063	10.712	1.854
15	1.311	2.324	1.246	4.021	20.192	0.925	0.826	0.393	0.616	1.045	2.538	30.676	15	1.311	2.324	1.246	4.021	20.192	0.925	0.826	0.393	0.616	1.045	2.538	30.676
16	1.140	1.956	3.732	2.833	5.232	0.921	3.358	0.491	0.616	1.166	2.108	5.793	16	1.140	1.956	3.732	2.833	5.232	0.921	3.358	0.491	0.616	1.166	2.108	5.793
17	1.155	1.952	3.179	2.239	2.955	0.952	1.410	0.840	0.622	1.029	6.002	3.035	17	1.155	1.952	3.179	2.239	2.955	0.952	1.410	0.840	0.622	1.029	6.002	3.035
18	1.874	1.874	1.804	1.967	2.311	1.076	0.827	0.941	0.636	1.004	3.557	2.513	18	1.874	1.874	1.804	1.967	2.311	1.076	0.827	0.941	0.636	1.004	3.557	2.513
19	1.246	2.005	1.175	1.845	2.205	1.018	0.772	0.782	0.595	1.401	11.421	2.306	19	1.246	2.005	1.175	1.845	2.205	1.018	0.772	0.782	0.595	1.401	11.421	2.306
20	1.181	1.744	1.487	1.748	2.050	1.580	0.716	0.764	0.584	1.035	13.807	2.162	20	1.181	1.744	1.487	1.748	2.050	1.580	0.716	0.764	0.584	1.035	13.807	2.162
21	1.238	1.737	1.419	1.639	1.905	53.908	0.693	0.698	0.713	1.023	3.358	5.603	21	1.238	1.737	1.419	1.639	1.905	53.908	0.693	0.698	0.713	1.023	3.358	5.603
22	1.172	1.671	3.767	3.345	1.866	3.525	0.673	0.683	0.668	1.023	2.504	12.021	22	1.172	1.671	3.767	3.345	1.866	3.525	0.673	0.683	0.668	1.023	2.504	12.021
23	1.172	1.815	2.046	2.449	1.715	1.719	0.674	0.664	0.635	1.031	2.000	3.680	23	1.172	1.815	2.046	2.449	1.715	1.719	0.674	0.664	0.635	1.031	2.000	3.680
24	1.172	2.082	1.695	1.998	1.587	1.303	0.658	0.650	0.640	1.029	1.503	2.862	24	1.172	2.082	1.695	1.998	1.587	1.303	0.658	0.650	0.640	1.029	1.503	2.862
25	1.116	1.908	1.605	1.792	1.509	1.083	0.638	0.629	0.635	1.023	4.474	2.517	25	1.116	1.908	1.605	1.792	1.509	1.083	0.638	0.629	0.635	1.023	4.474	2.517
26	1.050	2.218	1.519	1.599	1.400	0.965	0.621	0.613	0.587	1.023	5.254	2.326	26	1.050	2.218	1.519	1.599	1.400	0.965	0.621	0.613	0.587	1.023	5.254	2.326
27	1.083	1.599	1.498	1.498	1.383	0.872	0.621	0.609	0.750	1.015	3.105	2.155	27	1.083	1.599	1.498	1.498	1.383	0.872	0.621	0.609	0.750	1.015	3.105	2.155
28	1.169	1.841	1.454	1.498	1.308	7.682	0.619	0.848	0.751	1.512	2.321	1.989	28	1.169	1.841	1.454	1.498	1.308	7.682	0.619	0.848	0.751	1.512	2.321	1.989
29	1.172	1.702	1.405	1.455	1.267	2.343	0.556	0.661	5.036	1.224	2.066	1.884	29	1.172	1.702	1.405	1.455	1.267	2.343	0.556	0.661	5.036	1.224	2.066	1.884
30	1.127	1.375	1.383	1.282	1.332	0.645	0.639	7.336E	1.133	2.971	1.884	2.636	30	1.127	1.375	1.383	1.282	1.332	0.645	0.639	7.336E	1.133	2.971	1.884	2.636
31	1.043	1.761	1.605	1.401	1.401	0.764	0.600	0.600	1.083	1.083	1.083	1.083	31	1.043	1.761	1.605	1.401	1.401	0.764	0.600	0.600	1.083	1.083	1.083	1.083
REAN	1.1960	2.7095	1.6785	2.3440	3.5283	3.2114	1.0649	0.6040	1.1091	3.7316	3.4798	3.6280	REAN	1.1960	2.7095	1.6785	2.3440	3.5283	3.2114	1.0649	0.6040	1.1091	3.7316	3.4798	3.6280
INCHES	0.600	1.271	0.842	1.138	1.770	1.559	0.534	0.303	0.538	1.872	1.689	1.820	INCHES	0.600	1.271	0.842	1.138	1.770	1.559	0.534	0.303	0.538	1.872	1.689	1.820
STA AV	0.875	1.207	1.214	0.943	0.900	0.623	0.440	0.534	0.387	0.719	0.592	0.635	STA AV	0.875	1.207	1.214	0.943	0.900	0.623	0.440	0.534	0.387	0.719	0.592	0.635

NOTES: To convert CFS to IN/DAY, multiply by 0.016178. STA AV based on record period January 1958 through 1972.

1972 SELECTED RUNOFF EVENT						BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)														
ANTICIPATED CONDITIONS			RAINFALL						RUNOFF											
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF JULY 12 - 13, 1972																				
BG P24802																				
7-12	0.26	0.009	7-12	1400	0.0	0.0	7-12	1424	0.905	0.0										
				1500	0.1000	0.10		1444	1.112	0.0002										
				1613	0.0	0.10		1449	1.231	0.0003										
				1617	0.5559	0.14		1456	1.053	0.0004										
				1700	0.0140	0.15		1508	0.994	0.0005										
WATERSHED CONDITIONS:																				
Farm woods, mixture of																				
hardwoods and conifers																				
with pine predominating, 58%;																				
cultivated, 16%; pasture																				
native grass mixture,																				
usually fair cover, 8%;																				
idle, 16%.																				
				1745	0.0133	0.16		1650	1.038	0.0017										
				1753	0.3750	0.21		1714	1.187	0.0020										
				1800	0.0570	0.31		1726	1.543	0.0022										
				1803	1.0003	0.36		1729	1.676	0.0023										
				1808	0.6000	0.41		1734	1.810	0.0024										
				1811	2.0003	0.51		1750	2.632	0.0027										
				1813	2.5595	0.61		1808	2.418	0.0032										
				1816	2.0000	0.71		1838	2.522	0.0040										
				1819	1.5597	0.81		1840	2.892	0.0041										
				1824	1.2001	0.91		1843	3.550	0.0042										
				1826	0.9002	0.94		1845	4.475	0.0043										
				1830	0.3000	0.56		1849	6.022	0.0045										
				1839	0.3333	1.01		1854	5.834	0.0049										
				1844	1.0501	1.11		1855	14.506	0.0050										
				1848	0.7501	1.16		1856	15.208	0.0052										
				1856	0.3750	1.21		1857	24.681	0.0055										
				1910	0.1286	1.24		1858	28.112	0.0056										
				1930	0.0600	1.26		1859	27.055	0.0061										
								1901	30.051	0.0068										
								1902	29.932	0.0071										
								1909	41.620	0.0099										
								1910	48.977	0.0104										
								1915	45.625	0.0131										
								1921	47.301	0.0162										
								1925	57.773	0.0186										

1972 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)									
ANTICIPED CONDITIONS			RAINFALL				RUSCEF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 12 - 13, 1972 (CONTINUED)												
							7-12					
							1926		60.250	0.0192		
							1928		60.131	0.0206		
							1932		60.665	0.0233		
							1934		61.051	0.0247		
							1936		63.142	0.0260		
							1941		63.465	0.0295		
							1946		58.841	0.0330		
							1953		54.436	0.0375		
							1955		57.165	0.0387		
							1957		56.468	0.0400		
							2000		52.715	0.0419		
							2008		45.155	0.0463		
							2012		42.584	0.0483		
							2028		32.928	0.0551		
							2044		26.180	0.0604		
							2049		23.361	0.0618		
							2050		22.368	0.0620		
							2055		21.211	0.0632		
							2058		20.365	0.0639		
							2108		17.755	0.0661		
							2121		14.981	0.0665		
							2132		13.186	0.0702		
							2144		11.569	0.0719		
							2153		10.679	0.0730		
							2200		10.443	0.0738		
							2212		8.855	0.0751		
							2226		7.632	0.0764		
							2240		7.120	0.0776		
							2245		6.882	0.0780		
							2316		5.577	0.0802		
							2342		4.806	0.0817		
							2400		4.479	0.0826		
							20		4.138	0.0836		
							100		3.664	0.0854		
							7-13					

NOTES: To convert CFS to IN/HR, multiply by 0.0006741.



EVENT OF JULY 12 - 13, 1972
BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)

BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)

LOCATION: Brunswick County, Va., on Route No. 56, 4 mi. W. of Lawrenceville, Va., Meherrin River. Lat. 36 deg. 43 min. 54 sec. N.; Long. 77 deg. 54 min. 41 sec. W.

AREA: 555.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														BLACKSBURG, VIRGINIA														ROCKY RUN BRANCH WATERSHED (13011)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

NOTES: Watershed conditions: Mixed cover, farm woods, mixture of hardwoods and conifers, 57%; permanent pasture, usually a good cover of native grass and clover mixture, 13%; alfalfa and other hay crops, 5%; cultivated, 5%; roads, 1%; idle, 15%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 13.11-6. Precipitation: Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from April 1958 through 1972. For long-time precipitation records, see National Weather Service records at Emporia (1 mile WNW), Virginia.

1972 DAILY PRECIPITATION (inches) BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.515	0.0	0.08	0.0	0.0	0.0	0.0	0.25	0.0	0.15	0.0	
2	0.03	0.765	0.0	0.01	0.02	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
3	0.0	0.63	0.39	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.64	0.0	
4	0.20	0.0	0.0	0.21	0.07	0.0	0.0	0.01	0.0	0.0	0.06	0.0	
5	0.11	0.0	0.0	0.0	0.0	0.0	0.86	0.59	1.71	8.042	0.0	0.0	
6	0.0	0.19	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.08	
7	0.0	0.01	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.032	0.02	0.0	
8	0.0	0.0	0.07	0.05	0.83	0.0	0.0	0.0	0.0	0.0	1.76	0.13	
9	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	
10	0.27	0.0	0.0	0.0	0.0	0.13	0.0	0.46	0.0	0.0	0.0	0.0	
11	0.15	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.332	0.0	0.16	0.0	0.0	1.21	0.0	0.0	0.0	0.0	0.0	
13	0.09	0.808	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.01	
14	0.07	0.0	0.03	0.08	1.20	0.13	0.0	0.0	0.0	0.0	0.42	0.57	
15	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	1.66	
16	0.0	0.0	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.12	0.0	
17	0.0	0.25	0.50	0.0	0.0	0.38	0.142	0.0	0.0	0.0	0.53	0.0	
18	0.0	0.575	0.0	0.0	0.01	0.03	0.0	0.0	0.0	0.01	0.0	0.0	
19	0.0	0.195	0.0	0.0	0.07	0.04	0.0	0.03	0.0	0.33	1.01	0.0	
20	0.0	0.0	0.0	0.07	0.02	0.39	0.0	0.0	0.01	0.0	0.03	0.01	
21	0.14	0.0	0.03	0.0	0.06	5.43	0.0	0.0	1.80	0.0	0.0	0.60	
22	0.12	0.0	1.04	0.82	0.30	0.04	0.0	0.0	0.0	0.0	0.0	0.37	
23	0.23	0.0	0.0	0.04	0.52	0.0	0.0	0.0	0.0	0.04	0.0	0.15	
24	0.0	0.02	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
25	0.0	0.07	0.015	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.592	0.0	
26	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.202	0.12	
27	0.08	0.0	0.0	0.0	0.0	0.0	0.018	0.04	0.28	0.0	0.0	0.0	
28	0.01	0.0	0.0	0.0	0.0	0.64	0.622	0.31	0.02	1.12	0.0	0.0	
29	0.03	0.0	0.0	0.0	0.0	0.0	0.388	0.0	1.38	0.0	0.0	0.0	
30	0.04	0.0	0.0	0.0	0.10	0.0	0.222	0.03	0.48	0.0	0.57	0.28	
31	0.0		0.48		0.01		0.26	0.0				0.20	
TOTAL	1.56	4.77	3.77	2.00	4.01	7.82	3.83	1.51	5.94	10.95	6.11	4.65	
STA AV	2.67	3.65	3.30	2.35	3.69	4.29	4.45	3.92	3.05	3.57	2.75	3.05	

NOTES: Precipitation amounts are Thiessen weighted values from rain gauges R-1 and R-2. STA AV based on record period April 1958 through 1972.

1972				BLACKSBURG, VIRGINIA				ROCKY MOUNTAIN WATERSHED (130111)				
MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.46	0.58	0.88	1.08	0.60	0.46	0.46	0.35	0.17	0.52	0.91E	1.54
2	0.48	3.03	0.88	0.54	0.58	0.43	0.41	0.32	0.17	0.36	0.80E	1.12
3	0.46	3.46	1.12	0.86	1.24	0.42	0.37	0.28	0.16	0.31	0.71E	0.98
4	0.48	2.61	1.00	0.89	0.96	0.39	0.34	0.26	0.13	0.29	1.85E	0.92
5	0.56	1.45	0.89	0.85	0.71	0.38	0.65	0.53E	0.66	107.07	1.58E	0.88
6	0.47	1.22	0.79	0.79	0.63	0.43	0.46	0.32E	0.26	39.46	1.60E	0.87
7	0.46	1.26	0.75	0.83	0.58	0.41	0.40	0.29E	0.20	5.65E	1.72E	0.82
8	0.46	1.01	0.75	1.31	0.77	0.37	0.35	0.26E	0.18	1.86E	13.00E	0.83
9	0.51	0.90	0.72	0.93	1.15	0.35	0.35	0.23E	0.17	1.33E	2.32E	0.87
10	0.79	0.86	0.70	0.87	0.72	0.38	0.32	0.65E	0.16	1.02E	1.63E	0.82
11	0.81	0.82	0.70	0.87	0.62	0.34	0.32	0.46E	0.16	0.52E	1.67E	0.75
12	0.75	0.86	0.68	0.90	0.57	0.33	0.64	0.32E	0.16	0.65E	1.31E	0.75
13	0.74	3.77	0.68	0.87	0.53	0.25	0.93	0.22	0.15	0.76E	1.12E	0.75
14	0.71	1.73	0.67	0.85	1.81	0.27	0.50	0.20	0.14	0.70E	1.60E	2.28
15	0.63E	1.27	0.65	0.78	1.48	0.24	0.40	0.19	0.13	0.69E	1.30E	22.16
16	0.60	1.08	1.04	0.75	1.09	0.24	0.36	0.18	0.13	0.64E	1.11E	4.59E
17	0.60	1.12	0.46	0.70	0.62	0.27E	0.38	0.19	0.12	0.59E	2.23E	2.11E
18	0.60	1.19	2.10	0.67	0.73	0.21E	0.36	0.18	0.12	0.55E	1.63E	1.63E
19	0.65	3.90	1.39	0.67	0.70	0.21E	0.32	0.18	0.13	0.65E	2.90E	1.41E
20	0.65	1.95	1.13	0.67	0.69	0.21E	0.30	0.17	0.13	0.65E	7.19E	1.24E
21	0.67	1.43	1.04	0.65	0.68	64.45E	0.28	0.16	0.82	0.60E	2.90E	1.17E
22	0.66	1.25	4.69	1.31	0.76	9.28E	0.26	0.16	0.29	0.60E	2.11E	4.64E
23	0.67	1.16	2.03	0.98	0.72	1.63	0.25	0.16	0.22	0.58E	1.86E	2.62E
24	0.63	1.24	1.41	0.82	0.66	1.02	0.25	0.15	0.21	0.58E	1.78E	1.94E
25	0.60	1.06	1.22	0.77	0.62	0.73	0.24	0.15	0.20	0.52E	1.85E	1.68E
26	0.60	1.19E	1.11	0.72	0.56	0.59	0.23	0.14	0.19	0.50E	3.93E	1.50E
27	0.59	1.10	1.03	0.68	0.53	0.50	0.23	0.13	0.20	0.50E	2.15E	1.48E
28	0.62	1.00	0.98	0.65	0.51	0.70	0.36	0.18	0.23	1.64E	1.26	1.32E
29	0.59	0.93	0.91	0.65	0.50	0.74	0.44	0.15	1.05	1.20E	0.54	1.16E
30	0.59		0.88	0.63	0.51	0.53	0.37	0.13	0.95	1.02E	1.58	1.16E
31	0.56		1.14		0.50		0.47	0.13		1.00E		1.47E
MEAN	0.6010	1.5310	1.2398	0.8312	0.7590	2.8938	0.3868	0.2392	0.2674	5.5993	2.3012	2.1782
INCHES	0.799	1.904	1.648	1.069	1.009	3.723	0.516	0.318	0.344	7.444	2.961	2.856
STA AV	0.862	1.255	1.330	0.920	0.857	0.815	0.536	0.384	0.276	0.541	0.649	0.873

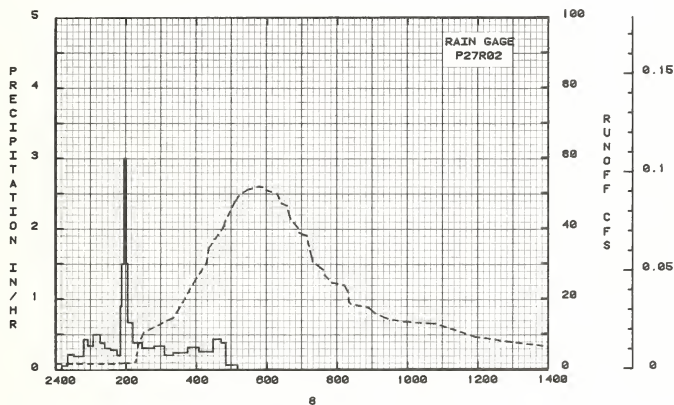
NOTES: To convert CFS to IIS/DAY, multiply by 0.042866. STA AV based on record period April 1958 through 1972.

1972				BLACKSBURG, VIRGINIA				ROCKY MOUNTAIN WATERSHED (130111)			
SELECTED RUNOFF EVENT											
ANTECEDENT CONDITIONS				RAINFALL				SUBCPE			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 7 - 8, 1972											
EG P27802											
11- 8	0.0		11- 8	10	0.0	0.0	11- 7	2400	1.684	0.0	
11- 7		0.074		20	0.0601	0.01	11- 8	140	1.690	0.0050	
				31	0.2181	0.05		206	1.908	0.0064	
				47	0.1875	0.10		216	2.222	0.0070	
				54	0.4286	0.15		217	2.871	0.0071	
WATERSHED CONDITIONS:											
mixed cover, farm woods, mixture of hardwoods and conifers, 57%; permanent pasture, usually a good cover of native grass and clover mixture, 13%; alfalfa and other hay crops, 5%; cultivated, 9%; roads, 1%; idle, 15%.											
				103	0.3333	0.20		218	3.950	0.0072	
				115	0.5000	0.30		219	4.947	0.0074	
				123	0.3750	0.35		220	6.341	0.0076	
				133	0.3000	0.40		221	7.404	0.0078	
				144	0.2727	0.45		230	10.622	0.0103	
				150	0.2000	0.47		321	14.881	0.0256	
				152	0.9000	0.50		327	16.408	0.0324	
				156	1.5001	0.60		400	26.045	0.0533	
				158	2.9897	0.70		417	30.153	0.0674	
				200	3.0001	0.80		421	34.565	0.0712	
				202	1.5001	0.85		445	40.271	0.0581	
				211	0.6666	0.48		489	42.268	0.0310	
				227	0.3750	1.05		505	47.512	0.1243	
				247	0.3000	1.15		512	45.252	0.1344	
				305	0.3333	1.25		526	51.021	0.1551	
				320	0.2000	1.30		544	51.866	0.1827	
				345	0.2400	1.40		552	51.765	0.1950	
				400	0.3158	1.50		559	59.620	0.2057	
				428	0.2500	1.60		617	45.755	0.2327	
				442	0.4285	1.70		625	47.014	0.2442	
				450	0.3750	1.75		634	46.358	0.2569	
				510	0.0600	1.77		640	42.587	0.2647	
								647	41.239	0.2735	
								653	40.052	0.2808	
								655	38.670	0.2831	

NOTES: To convert CFS to IIS/HR, multiply by 0.0017869.

1972	SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)						
ANTECEDENT CONDITIONS			RAINFALL			RUSCFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF NOVEMBER 7 - 8, 1972 (CONTINUED)										
							11- 8	708	37.758	0.2980
								718	30.550	0.3080
								736	28.160	0.3238
								739	26.565	0.3263
								752	24.456	0.3361
								812	23.734	0.3506
								819	21.702	0.3554
								820	19.106	0.3560
								823	18.462	0.3577
								853	17.376	0.3737
								905	15.709	0.3796
								926	14.209	0.3889
								956	13.252	0.4012
								1048	12.776	0.4214
								1154	9.027	0.4429
								1248	7.655	0.4563
								1306	7.253	0.4603
								1428	6.217	0.4768
								1634	6.217	0.4779
								1616	5.328	0.4954
								1820	4.874	0.5182
								1944	4.874	0.5264

NOTES: To convert CFS to IN/HR, multiply by 0.0017869.



EVENT OF NOVEMBER 7 - 8, 1972
BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)

BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)

LOCATION: Bedford County, Va., on Route No. 460, about 6 mi. west of Forest, Va., near Goode, Va., Elk Creek, Big Otter River. lat. 37 deg. 22 min. 06 sec. N.; long. 79 deg. 23 min. 10 sec. W.

AREA: 1056.00 acres 1.65 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)												BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972	P 2.88	5.33	1.67	3.58	6.15	7.25	9.28	1.30	3.16	6.40	5.61	4.68	57.34										
	Q 0.654	1.750	0.692	0.810	1.147	1.789	2.762	0.755	0.329	1.872	1.663	1.906	16.127										
STA AV	P 2.38	3.61	3.18	2.42	3.78	3.04	4.00	3.65	3.24	3.52	3.10	3.13	35.03										
	Q 0.848	1.268	1.222	0.750	0.579	0.487	0.454	0.495	0.263	0.575	0.625	0.775	8.365										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge												Maximum Volume for Selected Time Interval											
Date Rate												1 Day 12 Hours 1 Day 2 Days 8 Days											
Date Rate												Date Vol. Date Vol. Date Vol. Date Vol. Date Vol. Date Vol.											
1972	10- 5	0.242	10- 5	0.232	10- 5	0.418	10- 5	0.811	10- 5	0.565	10- 5	1.036	10- 5	1.160	10- 5	1.411							
MAXIMUMS FOR PERIOD OF RECORD																							
	8-23	0.390	8-23	0.330	8-24	0.550	8-24	1.030	8-23	1.630	8-23	2.260	8-22	2.420	8-20	2.800							
	1967		1967		1967		1967		1967		1967		1967		1967								

NOTES: Watershed conditions: mixed cover, cultivated, 30%; permanent pasture, usually a good cover of native grass mixture, 26%; farm woods, a mixture of hardwoods and pine, 37%; roads, 1%; idle, 6%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, p. 13.015-4. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 13.15-5. Precipitation: Thiessen weighted from R-1, R-2, and R-3. STA AV determined from continuous records from September 1960 through 1972. For long-time precipitation records, see National Weather Service records at Bedford, Virginia.

1972				BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)											
DAILY PRECIPITATION (inches)															
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.07	0.09S	0.14	0.11	0.0	0.0	0.0	0.06	0.0	0.0	0.29	0.0			
2	0.09	0.42S	0.23	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0			
3	0.0	1.09	0.0	0.0	1.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
4	0.50	0.0	0.0	0.04	0.0	0.0	1.79	0.0	0.0	0.0	0.01	0.0			
5	0.05	0.0	0.0	0.0	0.0	0.0	1.05	0.0	0.44	4.30	0.0	0.0			
6	0.0	0.17	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.68	0.0	0.89			
7	0.0	0.01	0.0	1.06	0.0	0.0	0.0	0.0	0.0	0.06	0.84	0.0			
8	0.0	0.0	0.03	0.0	0.85	0.0	0.0	0.0	0.0	0.14	0.068	0.0			
9	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66E			
10	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49			
11	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02			
12	0.0	0.48	0.0	0.32	0.0	0.0	1.37	0.0	0.0	0.0	0.0	0.0			
13	0.34	1.15	0.00E	0.91	0.0	0.0	0.01	0.12	0.0	0.0	0.13	0.0			
14	0.09	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.03	0.0			
15	0.0	0.0	0.0	0.02	0.54	0.0	0.37	0.12	0.0	0.0	0.0	0.80			
16	0.0	0.0	0.55	0.09	0.0	0.29	0.29	0.03	0.0	0.12	0.0	0.0			
17	0.0	0.36S	0.0	0.0	0.04	0.18	0.02	0.20	0.0	0.0	0.0	0.0			
18	0.0	0.30S	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.01	0.0	0.0			
19	0.0	0.03S	0.0	0.0	0.86	0.10	0.0	0.51	0.0	0.62	1.04E	0.01			
20	0.69	0.0	0.0	0.03	0.10	1.14	0.0	0.0	0.0	0.01	0.0	0.03			
21	0.04	0.0	0.12	0.05	0.02	3.58	0.02	0.0	0.09	0.0	0.0	0.908			
22	0.09	0.0	0.35	0.84	0.01	0.02	0.05	0.0	0.0	0.0	0.05	0.35E			
23	0.03	0.26	0.0	0.05	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.26	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
25	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0			
26	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.01			
27	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.28	0.01	0.0	0.0			
28	0.16	0.0	0.0	0.0	0.0	0.78	0.81	0.05	0.21	0.59	0.0	0.0			
29	0.0	0.0	0.0	0.0	0.0	0.53	1.70	0.0	1.42E	0.0	0.0	0.0			
30	0.0	0.0	0.0	0.0	0.03	0.0	0.25	0.0	0.72E	0.0	0.034E	0.01			
31	0.0	0.0	0.01	0.64	0.0	1.21	0.0	0.0	0.0	0.0	0.34	0.0			
TOTAL	2.88	5.33	1.67	3.58	6.15	7.29	5.28	1.30	3.16	6.40	5.61	4.68			
STA AV	2.38	3.61	3.18	2.42	3.78	3.04	4.00	3.65	3.24	3.52	3.10	3.13			

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1, R-2, and R-3. STA AV based on record period September 1960 through 1972.

1972	MEAN DAILY DISCHARGE (cfs)					BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.616	0.887	1.414	0.775	0.762	1.743	1.723	5.115E	0.463	0.604	0.929	1.559
2	0.688	0.522	1.506	0.764	0.758	1.259	1.159	3.750E	0.453	0.519	0.853	1.433
3	0.629	0.411	1.379	0.735	2.729	1.099	1.066	3.008E	0.446	0.467	0.877	1.376
4	0.901	3.488	1.220	0.741	3.362	1.133	6.322	2.368E	0.423	0.459	0.824	1.291
5	0.825	1.835	1.103	0.698	1.507	1.187	30.278	1.754E	0.588	44.574	0.775	1.205
6	0.679	1.602	1.044	0.678	1.201	1.223	3.041	1.419E	0.493	4.885	0.779	5.061
7	0.661	1.562	1.028	1.456	1.026	1.329	1.958	1.130	0.422	5.257E	0.857	2.316
8	0.632	1.238	0.983	1.642	1.711	1.318	1.546	0.889	0.410	3.008E	3.414	1.816
9	0.729	1.109	0.960	1.001	1.606	1.180E	1.359	0.835	0.410	2.368E	1.476	6.747
10	0.845	1.026	0.938	0.930	1.133	0.928E	1.247	0.803	0.396	1.824E	1.218	6.012
11	0.871	1.013	0.513	0.860	1.011	0.810E	1.163	0.776	0.395	1.419E	1.059	3.129
12	0.821	1.063	0.896	1.060	0.954	0.634E	6.959	0.757	0.392	1.130E	0.579	2.305
13	1.056	18.327	0.875	3.793	0.879	0.467	2.404E	0.755	0.382	0.954	0.536	1.889
14	1.211	2.873	1.011	2.673	3.652	0.459	1.371E	0.737	0.412	0.758	18.713	1.702
15	0.599	1.910	0.873	1.724	3.844	0.505	2.423E	0.719	0.422	0.725	2.705	6.540
16	0.830	1.555	1.142	1.457	2.066	0.496	1.547E	0.754	0.404	0.829	1.867	2.896
17	0.866	1.477	1.230	1.159	1.554	0.631	1.006E	0.720	0.339	0.829	1.585	1.594
18	0.801	1.422	0.942	1.042	1.309	0.631	0.843E	0.690	0.343	0.808	1.405	1.765
19	0.797	1.363	0.896	0.988	3.493	0.561	0.843E	0.764	0.373	1.212	4.522	1.657
20	1.284	1.149	0.880	0.930	2.381	1.550	0.843E	0.635	0.360	0.895	4.462	1.616
21	1.791	1.404	0.852	0.896	1.872	42.565	0.843E	0.511	0.387	0.817	2.124	2.751
22	1.328	1.785	1.245	1.982	1.571	4.515	0.860E	0.509	0.403	0.779	1.765	5.831
23	1.215	1.529	0.932	1.360	1.397	2.015	0.843E	0.486	0.373	0.779	1.585	3.473
24	1.068	2.321	0.873	1.155	1.144	1.467	0.843E	0.452	0.376	0.779	1.419	2.411
25	0.941	2.470	0.843	1.044	0.986	1.212	0.843E	0.424	0.345	0.779	3.183	2.039
26	0.896	6.784	0.843	0.966	0.895	1.029	0.843E	0.420	0.331	0.753	6.108	1.838
27	0.916	2.764	0.823	0.891	0.844	0.588	0.843E	0.437	0.325	0.725	2.251	1.712
28	1.289	1.990	0.779	0.861	0.925	1.538	7.615	0.548	0.437	1.231	1.775	1.591
29	1.023	1.610	0.779	0.843	1.183	3.100	13.761	0.475E	1.163	0.872	1.536	1.470
30	0.969	0.779	0.779	0.815	1.258	1.523	11.417E	0.468	0.268	0.820	1.818	1.419
31	0.896	0.779	0.779	1.573	1.573	15.471	0.435	0.355	0.775	0.775	1.764	
MEAN	0.9373	2.6823	0.9922	1.1596	1.6447	2.6504	3.9599	1.0820	0.4880	2.6837	2.4644	2.7327
INCBS	0.654	1.750	0.652	0.810	1.147	1.789	2.762	0.755	0.329	1.872	1.663	1.906
SIA AV	0.846	1.288	1.222	0.750	0.579	0.487	0.454	0.495	0.263	0.575	0.625	0.779

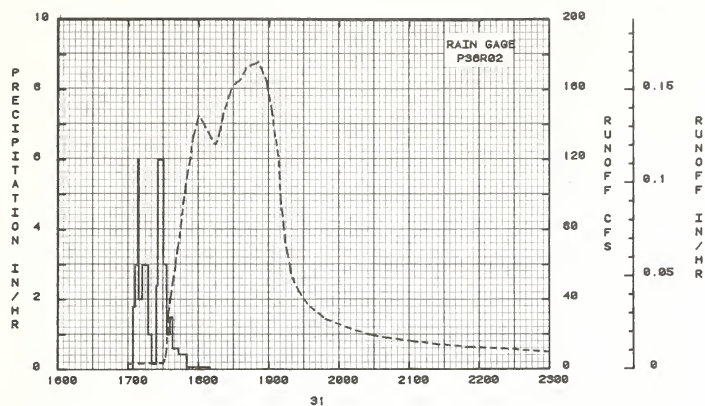
NOTES: To convert CFS to IN/DAY, multiply by 0.022496. SIA AV based on record period September 1960 through 1972.

1972	SELECTED BUNCFP EVENT			BLACKSBURG VIRGINIA				CHESTNUT BRANCH WATERSHED (13015)				
ANTICEDENT CONDITIONS		Date Mo-Day	Time of Day	RAINFALL		Acc. (inches)	Date Mo-Day	BUNCFP		Date of Day	Rate (cfs)	Acc. (inches)
Date Mo-Day	Rainfall (inches)			Runoff (inches)	Intensity (in/hr)			Time of Day				
EVENT OF JULY 31, 1972												
HG P36802												
7-31	BG P36802	0.01	0.057	7-31	1704	0.0	0.0	7-31	1700	3.339	0.0	
					1706	1.6004	0.06		1730	3.745	0.0017	
					1708	2.9995	0.16		1731	5.454	0.0018	
					1709	6.0018	0.26		1732	7.350	0.0019	
					1712	1.9997	0.36		1733	12.151	0.0020	
WATERSHED CONDITIONS:					1714	3.0009	0.46	1734	25.252	0.0024		
Mixed cover, cultivated, 30%; permanent pasture, usually a good cover of native grass mixture, 26%; farm woods, a mixture of hardwoods and pine, 37%; roads, 1%; idle, 6%.					1716	2.9991	0.56	1735	35.162	0.0029		
					1717	3.0009	0.61	1736	39.654	0.0034		
					1720	1.0000	0.66	1737	45.169	0.0040		
					1724	0.1499	0.67	1738	49.258	0.0049		
					1725	2.4011	0.71	1739	53.608	0.0057		
					1726	6.0009	0.81	1740	57.821	0.0065		
					1727	5.9963	0.91	1741	63.550	0.0074		
					1728	6.0018	1.01	1742	68.490	0.0086		
					1729	6.0009	1.11	1743	72.661	0.0096		
					1730	5.9963	1.21	1745	82.685	0.0122		
1732	3.0005	1.31	1747	95.576	0.0148							
1733	3.0009	1.36	1749	106.155	0.0181							
1736	1.0000	1.41	1751	113.915	0.0213							
1738	1.4998	1.46	1753	121.325	0.0252							
1743	0.6001	1.51	1754	127.314	0.0270							
1750	0.4285	1.56	1755	132.680	0.0289							
1810	0.0600	1.58	1757	137.075	0.0333							
			1758	139.924	0.0353							
			1800	145.023	0.0400							
			1802	143.177	0.0442							
			1806	138.323	0.0530							
			1811	131.688	0.0634							
			1814	128.807	0.0686							
			1816	130.717	0.0739							

NOTES: To convert CFS to IN/HR, multiply by 0.0005374.

1972 SELECTED RUNOFF EVENT			BLACKSBURG VIRGINIA CRESTMOUNT BRANCH WATERSEED (13015)								
PRECIPITATION CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JULY 31, 1972 (CONTINUED)											
							7-31	1818	136.200	0.0778	
								1820	143.071	0.0824	
								1821	146.506	0.0845	
								1826	156.918	0.0562	
								1828	160.865	0.1014	
								1832	164.194	0.1115	
								1836	166.231	0.1218	
								1840	172.024	0.1323	
								1844	174.040	0.1431	
								1851	175.866	0.1623	
								1853	172.238	0.1680	
								1858	164.706	0.1810	
								1859	159.606	0.1834	
								1901	153.632	0.1886	
								1903	145.354	0.1930	
								1905	133.416	0.1976	
								1906	131.026	0.1995	
								1908	121.777	0.2037	
								1909	111.585	0.2054	
								1910	57.496	0.2069	
								1911	51.191	0.2083	
								1912	87.607	0.2059	
								1913	79.670	0.2111	
								1914	72.661	0.2122	
								1916	66.875	0.2145	
								1918	59.668	0.2164	
								1919	55.197	0.2175	
								1921	51.997	0.2191	
								1922	49.724	0.2198	
								1924	47.047	0.2214	
								1928	42.566	0.2242	
								1933	37.563	0.2273	
								1936	35.656	0.2290	
								1939	33.850	0.2307	
								1947	29.668	0.2347	
								1949	28.708	0.2357	
								2006	24.110	0.2427	
								2025	20.003	0.2492	
								2033	18.808	0.2516	
								2040	18.040	0.2536	
								2050	17.229	0.2564	
								2107	15.629	0.2607	
								2126	14.093	0.2651	

NOTES: To convert CFS to IS/EE, multiply by 0.0009374.



KLINGESTOWN, PENNSYLVANIA WATERSHED #2-38

LOCATION: Northumberland County, Pennsylvania 6 miles northeast of Klingestown, Pennsylvania; Mahantango Creek Watershed, Susquehanna River Basin. Lat. 40 deg. 42 min. 16 sec. N.; Long. 76 deg. 35 min. 16 sec. W.

AREA: 1773.00 acres 2.77 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														KLINGESTOWN, PENNSYLVANIA WATERSHED #2-38													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1972	P 2.85	2.67	2.90	3.09	6.37	17.25	3.25	1.94	1.64	2.10	6.94	5.64	56.83														
	Q 2.235	1.946	4.935	2.009	3.183	15.572	1.559	0.333	0.132	0.122	2.361	5.359	35.791														
STA AV	P 1.84	2.19	2.63	2.84	4.38	6.54	3.55	3.02	3.24	2.49	4.67	3.06	40.65														
	Q 1.244	2.851	3.087	2.018	1.801	3.750	0.673	0.500	0.442	0.271	1.847	2.571	21.056														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
Maximum Discharge														Maximum Volume for Selected Time Interval													
Date		Date		1 Hour Date Vol.		2 Hours Date Vol.		6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.											
1972	6-22	0.917	6-22	0.786	6-22	1.484	6-22	3.411	6-22	6.373	6-22	10.432	6-22	12.378	6-21	14.330											
MAXIMUMS FOR PERIOD OF RECORD																											
6-22	0.917	6-22	0.786	6-22	1.484	6-22	3.411	6-22	6.373	6-22	10.432	6-22	12.378	6-21	14.330												
1972		1972		1972		1972		1972		1972		1972		1972		1972											

NOTES: Watershed conditions: mixed cover area, 4-yr rotation of corn, small grain, small grain and native grasses, most of which is heavily contoured. Vegetative cover: corn, 20.4%; small grain, 20.0%; pasture, 4.0%; hay, 12.9%; vegetables, 0.7%; idle, 0.6%; orchard, 0.3%; homesteads and roads, 3.1%; forest, 37.6%. Precipitation and runoff records began Jan. 1, 1968. Precipitation data thinsens weighted average for rain gauges #B37 and #B37. Length of record 5 yr (1968-72). For long-time precipitation records, see National Weather Service records at Selinsgrove, CAA Airport, Pennsylvania.

1972 DAILY AIR TEMPERATURE (degrees F)													KLINGESTOWN, PENNSYLVANIA WATERSHED #2-38												
Day	Jan max min	Feb max min	Mar max min	Apr max min	May max min	Jun max min	Jul max min	Aug max min	Sep max min	Oct max min	Nov max min	Dec max min	Day	Jan max min	Feb max min	Mar max min	Apr max min	May max min	Jun max min	Jul max min	Aug max min	Sep max min	Oct max min	Nov max min	Dec max min
1	35	20	34	12	66	45	56	31	73	52	62	44	80	58	82	60	79	59	58	37	45	37	38	30	
2	36	29	30	26	66	37	45	29	64	56	68	42	82	61	82	62	74	60	66	39	59	45	47	34	
3	40	19	36	28	37	16	43	28	63	56	78	51	79	61	81	65	76	58	68	44	60	43	48	37	
4	39	33	32	13	31	11	42	30	60	49	77	60	72	57	72	54	71	56	66	48	49	41	39	34	
5	34	18	18	8	33	20	48	23	60	44	75	58	59	52	75	49	70	45	65	53	48	38	48	34	
6	28	12	27	12	28	17	62	35	68	40	68	57	64	54	75	52	78	46	65	58	51	33	56	33	
7	34	17	28	9	56	24	35	22	74	51	72	54	72	50	79	65	80	53	55	47	52	36	34	23	
8	29	28	20	3	19	3	30	20	70	46	70	56	61	81	54	61	81	54	61	40	55	44	34	21	
9	38	28	24	10	28	14	46	20	48	44	78	57	75	51	80	57	75	56	55	39	47	40	41	34	
10	48	34	26	12	32	18	53	28	59	41	60	43	78	64	69	50	70	44	54	33	53	39	45	34	
11	46	35	30	16	35	14	58	38	68	34	64	40	85	63	74	46	72	47	58	34	46	42	34	25	
12	44	29	38	16	46	32	58	38	70	44	68	44	82	65	77	60	70	60	58	50	50	40	35	24	
13	58	34	47	33	42	32	52	38	72	50	64	56	83	62	81	62	82	62	56	37	48	39	42	32	
14	34	22	38	27	32	28	55	45	60	56	75	61	84	61	83	60	77	59	64	37	45	38	36	26	
15	25	4	47	26	36	26	48	43	67	51	81	65	85	68	72	56	72	48	52	35	37	28	35	31	
16	14	0	36	24	46	28	53	42	68	48	68	62	84	66	70	53	77	49	55	35	38	26	33	18	
17	32	5	31	23	42	36	66	44	70	46	73	60	84	66	62	57	86	56	57	36	36	26	23	14	
18	48	22	33	28	43	29	70	38	70	50	66	60	84	67	80	60	73	64	41	27	35	24	34	15	
19	51	30	32	21	40	26	80	46	72	52	78	65	89	68	79	61	70	54	38	30	37	25	40	36	
20	37	25	21	10	44	20	62	37	62	54	76	66	88	68	80	55	66	50	45	24	36	28	42	30	
21	40	26	35	6	49	28	57	30	75	56	70	61	89	70	81	52	58	53	45	29	33	22	35	35	
22	40	32	38	13	52	33	48	39	74	55	61	48	88	71	82	56	69	49	50	37	30	21	42	38	
23	44	39	23	4	33	24	64	39	78	47	61	47	88	70	84	63	65	39	53	44	34	17	44	31	
24	47	37	35	22	40	21	54	44	74	50	56	48	85	67	88	68	61	52	34	44	40	23	40	30	
25	46	21	41	26	34	18	52	36	68	46	62	52	83	62	88	66	76	55	50	31	40	22	40	36	
26	28	16	36	25	40	20	54	32	64	40	69	54	74	54	86	67	81	65	52	28	48	36	40	34	
27	24	14	35	15	46	24	54	36	70	38	76	50	70	60	82	66	76	57	56	31	43	35	36	32	
28	28	18	42	27	42	24	60	30	76	43	78	57	72	58	76	60	67	52	60	50	42	34	40	31	
29	26	13	57	34	52	24	66	40	75	47	66	62	76	50	82	66	63	56	56	48	40	27	34	26	
30	30	19	45	38	68	46	76	59	74	57	74	57	75	58	86	64	64	48	32	35	26	46	31		
31	24	12		49	33		74	58			66	61	82	55					42	28				61	45
AV.	37	22	33	18	42	25	55	35	69	45	74	59	61	75	58	73	53	55	38	44	33	40	30		
MEAN	29.4	25.9	33.7	44.9	58.6	62.1	70.0	66.6	63.1	46.8	38.2	35.4													
STA AV	31	17	34	20	43	27	58	38	67	48	76	57	81	61	79	59	74	55	61	44	47	34	37	26	

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 2400 preceding day to 2400 the date shown. Data recorded at #B37 meteorological station. STA AV based on 5 yr (1968-72) record period.

Cooperative Research Project with USDA, Soil Conservation Service, The Pennsylvania State University Agricultural Experiment Station, and the Institute for Research on Land and Water Resources of the Pennsylvania State University

1972 DAILY PRECIPITATION (inches)													KILGORETOWN, PENNSYLVANIA WATERSHED WE-38												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.25	0.10	0.10	0.0	0.0	0.0	0.0	0.10	0.0													
2	0.60	0.05	0.10	0.05	0.23	0.35	0.0	0.0	0.0	0.0	0.30	0.0													
3	0.0	0.75	0.65	0.0	0.73	0.0	0.05	0.0	0.0	0.0	0.25	0.0													
4	0.12	0.0	0.05	0.0	1.10	0.0	0.01	0.0	0.0	0.0	0.0	0.15													
5	0.13	0.0	0.0	0.0	0.0	0.0	0.74	0.0	0.0	0.0	0.0	0.05													
6	0.0	0.15	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.70	0.0													
7	0.0	0.0	0.0	0.10	0.0	0.0	0.0	1.00	0.0	0.20	0.0	0.0													
8	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.20	1.20	0.0													
9	0.81	0.0	0.0	0.0	0.81	0.30	0.0	0.0	0.16	0.0	0.0	0.0													
10	0.05	0.0	0.0	0.0	0.10	0.0	0.20	0.0	0.23	0.0	0.0	0.30													
11	0.33	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0													
12	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.05													
13	0.40	0.69	0.0	0.50	0.0	0.15	0.0	0.05	0.11	0.0	0.0	0.10													
14	0.0	0.05	0.20	0.0	0.35	0.0	0.0	0.0	0.10	0.0	1.55	0.0													
15	0.0	0.0	0.0	0.20	0.55	0.05	0.45	0.0	0.09	0.0	0.0	0.60													
16	0.0	0.0	0.50	0.55	0.05	0.55	0.95	0.0	0.09	0.0	0.0	0.0													
17	0.0	0.0	0.05	0.15	0.11	0.0	0.05	0.05	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.15	0.0	0.05	0.10	0.05	0.0	0.05	0.0													
19	0.0	0.67	0.0	0.33	0.0	0.11	0.0	0.0	0.20	0.25	0.60	0.10													
20	0.10	0.0	0.0	0.32	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.20													
21	0.0	0.0	0.0	0.0	0.0	2.84	0.61	0.0	0.0	0.05	0.0	0.40													
22	0.10	0.0	1.20	0.05	0.0	10.61	0.0	0.0	0.0	0.10	0.0	0.64													
23	0.25	0.05	0.0	0.05	0.0	0.0	0.05	0.0	0.0	0.25	0.0	0.0													
24	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.10	0.05	0.0	0.0	0.0													
25	0.20	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.05	0.0	0.05	0.0													
26	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.14													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.32													
28	0.10	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.30	0.0	0.20	0.0													
29	0.0	0.0	0.05	0.0	0.0	0.30	0.0	0.0	0.05	0.20	0.0	0.0													
30	0.0	0.0	0.0	0.05	0.82	0.0	0.0	0.0	0.29	0.0	0.40	0.10													
31	0.0	0.0	0.0	1.08	0.0	0.10	0.0	0.0	0.0	0.0	0.50	0.0													
TOTAL	2.85	2.67	2.90	3.09	6.37	17.25	3.25	1.94	1.64	2.10	6.54	5.84													
STA AV	1.84	2.19	2.63	2.84	4.38	6.54	3.95	3.02	3.24	2.49	4.67	3.06													

NOTES: Precipitation values are Thiessen weighted average of rain gages MB37 and MB37. STA AV based on 5 yr (1968-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)													KILGORETOWN, PENNSYLVANIA WATERSHED WE-36												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	1.52	3.06	24.63	3.65	3.15	6.75	11.74	1.16	0.38	0.26	0.26	4.53													
2	3.78	2.97	45.84	3.56	3.17	6.05	9.10	1.05	0.38	0.24	0.55	4.43													
3	3.68	4.32	51.60	3.10	6.75	5.60	7.46	1.08	0.38	0.22	0.85	4.65													
4	4.15	5.42	23.95	2.91	26.17	4.64	5.94	0.98	0.34	0.22	0.39	5.41													
5	5.14	3.81	14.75	2.59	24.88	3.75	7.37	0.51	0.33	0.22	0.32	6.28													
6	4.76	3.61	9.99	2.49	14.81	3.07	5.31	0.90	0.32	0.37	0.28	18.72													
7	5.04	3.57	8.48	2.47	10.68	2.81	4.36	2.56	0.30	0.67	0.27	23.56													
8	4.44	3.15	7.77	2.16	8.54	2.41	3.92	1.18	0.30	0.31	12.35	25.25													
9	4.44	2.95	6.12	1.92	9.43	2.18	3.47	0.59	0.53	0.26	7.50	40.25													
10	5.27	2.69	5.16	1.82	12.11	2.30	3.33	0.87	0.31	0.23	4.39	24.17													
11	6.50	2.54	4.35	1.86	12.37	1.81	2.96	0.82	0.31	0.23	2.55	15.67													
12	10.70	2.44	4.26	1.71	11.00	1.62	2.64	0.83	0.37	0.26	1.98	11.91													
13	12.23	17.86	3.99	2.83	8.93	1.62	2.50	0.83	0.42	0.25	1.55	5.77													
14	11.33	14.55	3.77	2.31	7.89	1.54	2.25	0.76	0.41	0.23	17.73	7.35													
15	10.05	9.13	3.79	2.43	8.78	1.44	2.25	0.67	0.33	0.21	19.37	8.23													
16	7.79	7.09	5.39	6.96	7.51	1.78	5.30	0.63	0.30	0.23	9.77	9.60													
17	6.52	5.81	8.78	18.27	6.77	1.95	4.86	0.71	0.28	0.21	6.05	8.15													
18	5.61	5.12	8.62	14.27	6.65	3.33	3.82	0.69	0.32	0.21	4.07	7.06													
19	5.06	4.24	7.48	9.97	5.80	5.24	3.10	0.60	0.39	0.33	4.95	6.19													
20	4.30	4.82	6.42	10.24	5.44	4.59	2.65	0.54	0.29	0.26	11.89	7.10													
21	3.91	4.49	5.61	7.55	5.01	15.38	3.92	0.49	0.29	0.24	9.38	7.31													
22	3.55	3.54	15.81	7.24	4.41	768.28	3.09	0.48	0.28	0.29	6.47	37.70													
23	3.86	3.08	25.16	6.82	3.86	154.38	2.51	0.48	0.24	0.37	4.51	25.33													
24	6.55	3.13	18.54	6.19	3.47	41.87	2.13	0.47	0.34	0.32	3.48	16.20													
25	4.48	3.04	10.02	5.23	3.05	26.67	1.87	0.44	0.29	0.26	2.95	11.25													
26	3.76	3.87	7.98	4.59	2.68	20.38	1.63	0.43	0.28	0.25	11.68	10.07													
27	1.51	3.55	6.78	4.10	2.37	16.21	1.52	0.27	0.24	0.19	11.19	8.54													
28	4.45	3.65	5.65	3.73	2.21	19.83	1.38	0.66	0.26	0.36	8.05	7.37													
29	4.01	7.48	4.90	3.47	2.05	17.75	1.30	0.51	0.26	0.52	5.64	6.35													
30	3.60		4.39	3.22	2.06	14.70	1.25	0.42	0.36	0.34	4.65	5.75													
31	3.30		3.89		5.04		1.24	0.38		0.28		9.94													
MEAN	5.371	4.999	11.868	4.989	7.649	38.665	3.747	0.795	0.329	0.293	5.862	12.574													
1973	2.235	1.946	4.939	2.009	3.183	15.572	1.559	0.333	0.132	0.122	2.361	5.359													
STA AV	1.244	2.051	3.067	2.018	1.801	3.750	0.623	0.500	0.448	0.271	1.887	2.571													

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.013425. Records are good. Some periods of winter records are affected by ice on control, no adjustments were made for these records. STA AV based on 5 yr (19

1972 SELECTED RUNOFF EVENT				KILGORESTOWN, PENNSYLVANIA WATERSHED #E-38							
PRECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF DECEMBER 21 - 24, 1972											
12-21	EG 008E37 0.10	0.058	12-21	EG 008E37 1615	0.0	0.0	12-21	1610	6.058	0.0	
				1820	0.0480	0.10		1640	6.321	0.0017	
				2120	0.0333	0.20		1700	6.553	0.0029	
				2255	0.0632	0.30		1715	6.785	0.0039	
				2400	0.0738	0.38		1730	7.028	0.0048	
WATERSHED CONDITIONS:											
	Mixed cover area, 4-yr		12-22	20	0.0600	0.40		1750	7.271	0.0062	
	rotation of corn, small grain,			135	0.0800	0.50		1805	7.524	0.0072	
	small grain and native			220	0.1333	0.60		1825	7.777	0.0086	
	grasses, most of which is			315	0.1091	0.70		1850	8.040	0.0105	
	heavily contoured. Vegetative			420	0.0923	0.80		1915	8.304	0.0124	
	cover: Corn, 20.4%; small										
	grain, 20.0%; pasture, 4.0%;			615	0.0522	0.50		1940	8.578	0.0143	
	hay, 12.5%; vegetables, 0.7%;			810	0.0322	1.00		2000	8.852	0.0160	
	idle, 0.6%; orchard, 0.5%;			1110	0.0333	1.10		2015	9.137	0.0172	
	homesteads and roads, 3.1%;							2040	9.422	0.0194	
	forest, 37.8%.							2105	9.718	0.0216	
								2140	10.014	0.0248	
								2210	10.321	0.0277	
								2230	10.628	0.0296	
								2245	10.947	0.0312	
								2255	11.265	0.0322	
								2300	11.595	0.0327	
								2315	11.925	0.0344	
								2325	12.608	0.0355	
								2345	13.600	0.0380	
								2350	14.045	0.0386	
								2400	14.423	0.0399	
							12-22	5	14.800	0.0406	
								10	15.159	0.0413	
								20	15.597	0.0428	
								30	16.355	0.0443	
								40	16.794	0.0458	
								45	17.224	0.0466	
								115	17.654	0.0515	
								130	18.084	0.0540	
								135	18.514	0.0548	
								145	18.944	0.0566	
								155	19.868	0.0584	
								200	20.331	0.0593	
								215	21.751	0.0623	
								220	22.246	0.0633	
								235	23.732	0.0665	
								240	24.791	0.0676	
								245	25.320	0.0688	
								250	26.379	0.0700	
								255	27.507	0.0712	
								300	28.071	0.0726	
								305	29.159	0.0739	
								315	30.359	0.0767	
								330	30.395	0.0805	
								345	30.598	0.0852	
								405	31.598	0.0910	
								420	32.198	0.0955	
								430	32.834	0.0985	
								500	33.470	0.1078	
								540	34.106	0.1204	
								545	33.470	0.1220	
								600	32.834	0.1266	
								630	32.198	0.1357	
								715	31.598	0.1491	
								800	32.158	0.1625	
								815	33.470	0.1671	
								820	34.106	0.1686	
								825	34.742	0.1762	
								830	34.742	0.17719	
								845	36.051	0.1768	
								850	36.724	0.1785	
								900	38.071	0.1820	
								915	38.744	0.1874	
								920	40.166	0.1892	
								925	40.166	0.1910	

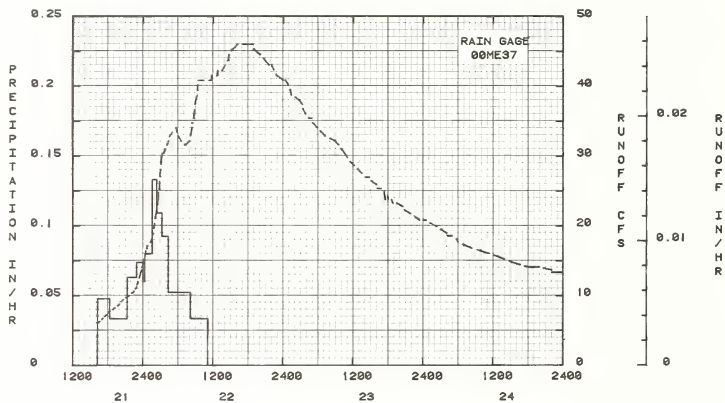
NOTES: To convert runoff in CFS to I/R/E, multiply by 0.000555.

1972	SELECTED HONCFF EVENT			KLINGERSSTOWN, PENNSYLVANIA WATERSHED WE-36						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF DECEMBER 21 - 24, 1972 (CONTINUED)										
12-22							930	40.877	0.1530	
							1140	40.877	0.2424	
							1145	41.589	0.2444	
							1240	41.589	0.2657	
							1245	42.300	0.2677	
							1330	42.300	0.2855	
							1400	43.050	0.2974	
							1435	43.759	0.3115	
							1440	44.545	0.3136	
							1515	45.259	0.3283	
							1610	46.045	0.3516	
							1850	46.045	0.4204	
							1855	45.259	0.4225	
							2000	44.545	0.4457	
							2045	43.759	0.4683	
12-23							2130	43.050	0.4865	
							2200	43.050	0.4585	
							2245	41.589	0.5163	
							2400	40.877	0.5451	
							20	40.877	0.5527	
							50	40.166	0.5640	
							110	35.445	0.5714	
							120	36.744	0.5751	
							240	38.071	0.6037	
							315	37.358	0.6161	
							320	36.724	0.6178	
							350	36.051	0.6280	
							425	35.378	0.6396	
							455	35.378	0.6495	
							505	34.742	0.6528	
12-24							545	34.106	0.6656	
							630	33.470	0.6798	
							715	32.834	0.6937	
							850	32.198	0.7225	
							930	31.598	0.7344	
							1005	30.998	0.7446	
							1100	29.799	0.7602	
							1130	29.199	0.7685	
							1210	28.635	0.7792	
							1250	28.071	0.7898	
							1330	27.507	0.8002	
							1410	26.943	0.8103	
							1445	26.943	0.8191	
							1515	26.375	0.8266	
							1600	25.850	0.8375	
12-24							1615	25.320	0.8411	
							1645	25.320	0.8482	
							1720	24.751	0.8563	
							1730	23.732	0.8586	
							1755	24.262	0.8642	
							1800	23.732	0.8653	
							1835	23.732	0.8731	
							1845	23.237	0.8753	
							1930	23.237	0.8850	
							2030	22.742	0.8979	
							2050	22.246	0.9021	
							2150	21.751	0.9144	
							2240	21.255	0.9244	
							2325	20.753	0.9332	
							2400	20.753	0.9400	
12-24							30	20.753	0.9458	
							120	20.331	0.9554	
							220	19.868	0.9666	
							305	19.406	0.9749	
							405	18.944	0.9856	
							415	18.514	0.9874	
							500	18.514	0.9951	
							545	18.084	1.0028	
							600	17.654	1.0053	
							700	17.224	1.0151	
							825	16.754	1.0285	
							950	16.355	1.0417	
							1120	15.996	1.0553	
							1245	15.597	1.0678	
							1400	15.199	1.0786	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.

1972 SELECTED RUNOFF EVENT			KLINGERSSTOWN, PENNSYLVANIA WATERSHEED WE-38									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF DECEMBER 21 - 24, 1972 (CONTINUED)												
							12-24	1510	14.800	1.0883		
								1640	14.423	1.1006		
								1810	14.045	1.1125		
								1950	14.045	1.1256		
								2205	13.680	1.1431		
								2210	13.315	1.1437		
								2345	13.315	1.1555		
								2400	12.962	1.1573		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000555.



EVENT OF DECEMBER 21 - 24, 1972
KLINGERSSTOWN, PENNSYLVANIA WATERSHEED WE-38

McCREDIE, MISSOURI STATION RESERVOIR W-1

LOCATION: Callaway County, Mo.; 1 mi. S.E. of McCredie; Crows Fork Creek, Auxvasse Watershed, Missouri River Basin.
Lat. 36 deg. 56 min. 54 sec. N.; Long. 91 deg. 54 min. 37 sec. W.

AREA: 153.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														MCCREDIE, MISSOURI STATION RESERVOIR W-1												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1972	P	0.70	0.40	3.05	4.08	2.90	0.75	2.21	1.40	5.18	2.49	4.90	2.43	30.53												
	Q	0.009	0.046	0.773	1.234	0.365	0.0	0.0	0.0	0.018	0.033	1.131	1.376	4.986												
STA AV	P	1.41	1.54	2.59	3.71	4.29	4.49	3.56	2.77	3.92	3.58	2.02	1.75	35.62												
	Q	0.516	0.649	1.055	1.131	0.899	1.014	0.510	0.126	0.531	1.076	0.405	0.383	8.295												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																										
Maximum Discharge														Maximum Volume for Selected Time Interval												
Date		Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	6 Days																	
Date		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.											
1972	4-19	0.195	4-19	0.115	4-19	0.208	4-19	0.460	4-19	0.687	11-13	0.792	4-15	1.055	4-19	1.234										
MAXIMUMS FOR PERIOD OF RECORD																										
10-13	2.269	10-13	1.365	10-13	2.236	10-4	3.960	10-4	7.000	10-4	7.775	10-3	8.050	10-2	8.840											
1968	1968	1968	1968	1968	1968	1968	1968	1968	1968	1968	1968	1968	1968	1968	1968											

NOTES: Watershed conditions: 40% Pasture and meadow; 35% corn; 10% soybeans; and 6% roads and farmsteads. Precipitation Thiessen average of 4 recording gages and 1 non-recording gage. Precipitation and runoff records began Jan. 1, 1941. Runoff amounts, or rates, which are reported as inches or inches per hour, respectively, were computed with a constant watershed area of 153 acres, including reservoir surface area. Previous published runoff amounts and rates were computed with a variable watershed area equal to the total area less the reservoir surface area, which was a function of reservoir stage. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 25-1-13. For long-time precipitation records, see National Weather Service records at Columbia, Missouri (1890-1972).

1972 DAILY AIR TEMPERATURE (degrees F)													MCCREDIE, MISSOURI STATION RESERVOIR W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	max	min	max	min	max	min	max	min	max	min	max	min		max	min	max	min	max	min	max	min	max	min	max	min
1	38	27	49	23	78	32	38	28	71	55	76	41	92	64	68	88	63	76	44	63	45	55	30		
2	43	27	32	29	32	16	58	28	70	51	84	56	84	67	89	70	72	69	80	48	64	42	60	29	
3	34	27	32	8	47	20	55	38	62	45	88	64	72	64	79	68	72	56	78	52	47	42	60	27	
4	11	19	45	4	47	27	53	26	69	45	88	66	74	58	74	60	73	54	79	52	54	35	24	21	
5	22	-1	43	8	41	15	66	34	76	45	90	64	73	49	86	56	79	51	79	50	63	36	30	24	
6	36	14	42	17	68	26	83	44	78	54	88	69	75	47	87	65	83	55	73	60	58	38	26	6	
7	47	27	41	67	48	32	75	52	86	62	80	55	88	60	88	68	66	50	56	45	15	3			
8	48	33	23	12	48	21	44	26	51	49	92	63	80	58	83	57	75	67	75	47	55	31	28	10	
9	49	32	23	10	55	20	58	32	64	44	92	67	90	61	82	54	78	64	69	44	27	38	23	10	
10	51	28	25	17	54	27	69	43	67	44	92	46	92	71	82	53	81	59	75	46	57	45	16	6	
11	42	30	34	17	83	44	63	55	72	44	77	45	92	68	92	62	90	64	86	63	46	44	20	6	
12	55	27	38	29	76	54	89	59	73	51	89	58	88	65	95	68	91	68	81	57	48	42	32	20	
13	51	19	40	26	74	38	86	59	71	56	90	69	90	65	95	76	93	72	61	54	47	43	31	15	
14	20	2	61	30	57	32	83	54	71	53	88	72	94	65	96	70	92	64	70	55	45	33	24	20	
15	4	-11	47	27	57	45	81	47	73	52	84	57	95	66	97	69	81	58	66	36	39	25	24	16	
16	28	-4	50	20	52	42	63	47	79	52	83	64	83	63	97	71	90	63	76	49	40	25	20	8	
17	49	20	49	34	57	38	77	43	79	53	82	57	93	69	97	70	89	68	75	42	38	33	32	12	
18	61	41	43	22	55	35	84	55	80	52	85	58	93	68	98	71	94	68	46	38	36	32	45	28	
19	59	26	41	17	68	36	83	61	84	55	89	62	85	65	99	72	94	70	46	23	34	30	42	36	
20	48	35	53	20	78	44	61	54	86	63	89	67	91	71	96	70	92	70	50	29	38	28	37	30	
21	35	27	60	35	75	48	68	53	86	60	77	53	93	71	96	70	88	58	55	49	36	24	34	30	
22	45	32	48	15	56	37	74	41	87	60	75	51	94	70	96	71	94	66	44	67	54	33	28	31	
23	45	33	43	28	56	29	72	45	87	61	80	54	95	70	96	66	96	66	56	67	44	42	16	39	
24	54	33	42	26	49	32	55	42	82	52	83	61	88	64	81	69	84	69	46	62	47	26	34	26	
25	35	7	35	27	42	33	57	36	82	56	85	58	92	67	85	67	78	69	52	34	44	33	35	29	
26	25	11	39	18	56	31	63	37	85	58	85	60	94	69	82	61	77	62	63	34	40	34	34	22	
27	24	11	57	26	52	30	62	48	86	60	82	63	80	60	76	59	72	38	44	35	51	25			
28	17	-2	74	40	50	38	63	52	83	64	92	69	78	67	90	60	84	53	56	44	43	27	50	27	
29	27	7	84	41	41	32	72	52	76	62	85	58	80	64	92	61	85	52	56	46	41	22	55	42	
30	28	12			52	28	74	56	65	56	92	60	84	67	91	61	62	39	57	51	42	27	58	35	
31	43	18			52	30			65	49			87	60	88	63			56	51			39	30	
AV.	38	19	43	22	57	34	68	44	75	53	86	59	87	65	89	65	82	61	66	47	46	34	36	22	
MEAN	28.9		32.4		45.5		56.1		64.4		72.7		76.0		77.1		71.5		56.4		35.8		29.0		
STA AV	38	20	43	23	52	30	67	43	75	52	83	61	88	65	88	63	81	55	70	45	54	33	41	24	

NOTES: Temperature data taken daily with the maximum and minimum thermometers, except on weekends and holidays, when data taken from hygrothermograph charts. The recording period is from 1700 of the previous day to 1700 of the day on which values are recorded. STA AV based on 32 yr (1941-1972) record period.

1972	DAILY PRECIPITATION (inches)					MCREDIE, MISSOURI				STATION RESERVOIR W-1		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.15	0.03	0.0	0.0	0.81	0.0	0.23	0.0	0.77	0.0	1.52	0.0
2	0.0	0.03	0.0	0.0	0.0	0.0	0.11	0.13	0.28	0.0	0.0	0.0
3	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.19
4	0.05	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.05
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
6	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.67	0.0	0.0	0.0
8	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0
9	0.03	0.0	0.0	0.0	0.13	0.13	0.0	0.0	0.0	0.0	0.29	0.04
10	0.0	0.04	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.16	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53
12	0.0	0.09	1.76	0.0	0.95	0.0	0.0	0.06	0.0	0.0	0.81	1.14
13	0.05	0.0	0.14	0.0	0.0	0.04	0.0	0.0	0.42	0.0	1.31	0.0
14	0.0	0.0	0.09	0.14	0.19	0.29	0.0	0.0	0.61	0.05	0.0	0.0
15	0.0	0.0	0.65	0.20	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.05
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	1.21	0.0	0.0	0.04	0.06	0.0
19	0.0	0.0	0.0	2.68	0.0	0.0	0.0	0.24	0.0	0.0	0.19	0.12
20	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.01	0.52	0.02	0.0	0.0
21	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.45	0.84	0.04	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0
23	0.0	0.06	0.0	0.0	0.19	0.0	0.04	0.23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.01	0.0	0.0	0.0	0.03	0.02	0.0	0.0	0.0	0.0
25	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.26	0.03	0.0	0.11	0.0
26	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.0
27	0.43	0.0	0.07	0.05	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.09	0.35	0.49	0.0	0.07	0.0	0.12	0.0	0.0	0.10
29	0.0	0.0	0.10	0.0	0.26	0.0	0.0	0.0	0.10	0.0	0.0	0.04
30	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.31	0.0	0.31	0.0	0.14
31	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0
TOTAL	0.70	0.40	3.95	4.08	2.90	0.75	2.21	1.40	5.18	2.45	4.50	2.43
STA AV	1.41	1.54	2.59	3.71	4.29	4.49	3.56	2.77	3.92	3.58	2.92	1.75

NOTES: Precipitation data are thissen weighted values for 4 recording rain gages and 1 non-recording rain gage. STA AV values are for 32 yr (1941-1972) record period.

1972	MEAN DAILY DISCHARGE (cfs)					MCREDIE, MISSOURI				STATION RESERVOIR W-1		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.059	0.0	0.0	0.0	1.822	0.0	0.0	0.0	0.0	0.0	1.212	0.0
2	0.0	0.0	0.0	0.0	0.214	0.0	0.0	0.0	0.0	0.0	0.061	0.0
3	0.0	0.0	0.0	0.0	0.204	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.118	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.139	0.252	0.0	0.099	0.0	0.0	0.0	0.0	0.0	0.172	0.0
13	0.0	0.059	2.067	0.010	0.0	0.0	0.0	0.0	0.0	0.0	5.056	0.0
14	0.0	0.097	0.077	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.378	0.0
15	0.0	0.0	2.230	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.208	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.048
19	0.0	0.0	0.0	3.259	0.0	0.0	0.0	0.0	0.0	0.0	1.589	0.0
20	0.0	0.0	0.0	2.056	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.744
21	0.0	0.0	0.0	2.012	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.555
22	0.0	0.0	0.0	0.446	0.0	0.0	0.0	0.0	0.0	0.202	0.0	0.190
23	0.0	0.0	0.0	0.162	0.0	0.0	0.0	0.0	0.0	0.0	0.452	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.054	0.168
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.292	0.026
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.045	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.500
28	0.0	0.0	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.719
29	0.0	0.093	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.022	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.345	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.083	0.0
MEAN	0.0019	0.0102	0.1604	0.2645	0.0758	0.0	0.0	0.0	0.0039	0.0068	0.2423	0.2653
INCHES	0.009	0.046	0.773	1.234	0.365	0.0	0.0	0.0	0.018	0.033	1.131	1.376
STA AV	0.516	0.649	1.055	1.131	0.859	1.014	0.510	0.126	0.531	1.076	0.405	0.383

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.155557. STA AV values are for 32 yr (1941-72) record period.

COSHOCTON, OHIO WATERSHED 102

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 25 sec. N.; Long. 81 deg. 47 min. 42 sec. W.

AREA: 1.26 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 102										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1972	P	1.50	1.95	3.41	5.11	2.78	3.57	2.80	2.78	3.71	1.61	4.80	3.01	37.03										
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.027										
STA AV	P	1.83	2.25	3.93	3.34	3.91	4.41	4.19	2.95	2.44	2.29	2.52	2.42	36.49										
	Q	0.04	0.083	0.107	0.057	0.009	0.143	0.166	0.032	0.015	0.009	0.001	0.001	0.666										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																								
Maximum Discharge															Maximum Volume for Selected Time Interval									
		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days										
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.							
1972	12- 6	0.068	12- 6	0.027	12- 6	0.027	12-31	0.027	12-31	0.027	12-30	0.027	12-25	0.027	12-23	0.027								
MAXIMUMS FOR PERIOD OF RECORD																								
		6-12	3.640	6-12	1.310	7- 5	1.427	7- 5	2.470	7- 5	2.470	7- 5	2.470	7- 5	2.470	6-25	2.557							
		1957		1957		1969		1969		1969		1969		1965		1965								

NOTES: Watershed conditions: Cover of improved practice alfalfa meadow. For map of watershed, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.1-4. For geology description and map, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.1-1 and 26.30-3. Precipitation data from rain gage Y101. Precipitation and runoff records began April 1937. Watershed discontinued Jan. 1, 1947 to Apr. 30, 1957 and Sept. 1, 1957 to March 29, 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 102			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.42	0.12	0.05E	0.0 T	0.0	0.0	0.0	0.0	0.53E	0.02S			
2	0.25	0.0	0.72E	0.03E	0.0	0.05	0.0	0.43	0.04E	0.0	1.04	0.0			
3	0.0	0.33E	0.0	0.05	0.0	0.0	0.16	0.0	0.18E	0.0	0.0	0.0			
4	0.17E	0.0	0.04S	0.06	0.07	0.0	0.04E	0.0	0.0	0.22E	0.0	0.35			
5	0.17E	0.0	0.0 T	0.0	0.0	0.0	0.22	0.0	0.0	0.0 T	0.0	0.0			
6	0.0	0.32S	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.61			
7	0.0	0.0	0.22	0.56E	0.0	0.0	0.0	0.32E	0.0	0.0	1.24E	0.0			
8	0.0	0.0	0.0 T	0.0	0.48	0.0	0.21	0.44	0.0	0.0	0.14	0.56E			
9	0.24	0.0	0.03S	0.0	0.63	0.0	0.73	0.0	0.0	0.0	0.0	0.02E			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.10E	0.03E			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.04	0.26	0.21	0.0	0.0	0.0	0.0	0.01E	0.55	0.0	0.09E			
13	0.10E	0.96E	0.30E	0.85	0.40	1.63	0.07E	0.0	0.21	0.0	0.67	0.22E			
14	0.0	0.0	0.35S	0.0	0.28	0.04	0.0	0.0	0.61	0.0	0.25	0.0			
15	0.0	0.09	0.0	0.0	0.08	0.54	0.31	0.0	0.0	0.0	0.0	0.40E			
16	0.0	0.0	0.40	0.66	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.06S			
17	0.0	0.0	0.08E	0.0	0.08	0.0	0.0	1.23	0.07	0.0	0.0	0.0			
18	0.07E	0.06S	0.0	0.0	0.0	0.0	0.0	0.06	0.70	0.20E	0.0	0.0			
19	0.0	0.0 T	0.0	0.49	0.0	0.0	0.0	0.10	0.0	0.0	0.37	0.15			
20	0.04E	0.0	0.05E	0.42	0.0	0.08E	0.0	0.0	0.0	0.0	0.07	0.10			
21	0.0	0.0	0.15	0.30	0.0	0.17E	0.0	0.0	0.0	0.0	0.0	0.07E			
22	0.20	0.0 T	0.23E	0.06E	0.0	0.16E	0.0	0.12E	0.0	0.0	0.0	0.01E			
23	0.12	0.08S	0.0 T	0.05E	0.0	0.17E	0.24	0.18	0.10E	0.0	0.0	0.0			
24	0.0	0.0	0.0 T	0.0	0.0	0.17E	0.14	0.0	0.23	0.0 T	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.18	0.0	0.10E	0.0			
26	0.0	0.07E	0.0	0.0	0.0	0.17	0.0	0.08	0.21	0.0	0.06E	0.25E			
27	0.07E	0.0	0.02E	0.0	0.0	0.0	0.23E	0.0	0.22	0.04E	0.05S	0.0			
28	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.16S	0.0			
29	0.0	0.0	0.14	0.0	0.08E	0.22E	0.0	0.0	0.32	0.15	0.0	0.0			
30	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.63	0.0	0.0	0.02S	0.0			
31	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.0	0.07E			
TOTAL	1.50	1.95	3.41	5.11	2.78	3.57	2.80	2.78	3.71	1.61	4.80	3.01			
STA AV	1.83	2.25	3.93	3.34	3.91	4.41	4.19	2.95	2.44	2.29	2.52	2.42			

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage Y101. STA AV based on 24 yr period, part-years records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'T' indicates accurately measured total for a series of days has been equally divided among coded days.

1972		MEAN DAILY DISCHARGE (cfs)					COSHOCTON, CHIC WATERSHED 102						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027	
STA AV	0.044	0.083	0.107	0.057	0.009	0.143	0.166	0.032	0.015	0.009	0.001	0.001	

NOTES: To convert CFS to IN/DAY, multiply by 16.6902. STA AV based on 24 yr period, part-years records included.

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 23 sec. N.; Long. 81 deg. 47 min. 20 sec. W.

AREA: 1.37 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						COSHOCTON, OHIO WATERSHED 123									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1972 P	1.42	1.01	3.02	5.13	2.68	2.46	2.59	2.62	3.74	1.59	5.03	3.08	36.16		
Q	0.0	0.0	0.034	0.415	0.0	0.003	0.0	0.000	0.001	0.0	0.659	0.078	1.190		
STA AV P	2.66	2.40	3.41	3.51	3.62	4.11	4.39	2.79	2.62	2.20	2.63	2.44	36.99		
Q	0.363	0.388	0.481	0.273	0.133	0.257	0.207	0.069	0.044	0.016	0.029	0.114	2.301		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
Maximum Discharge		Maximum Volume for Selected Time Interval													
Date	Date	1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.							
1972	11-7 0.151	11-7 0.132	11-7 0.204	11-7 0.293	11-7 0.375	11-7 0.375	11-6 0.375	11-6 0.644							
MAXIMIMS FOR PERIOD OF RECORD															
6-12 1957	5.970	6-12 1957	1.370	6-12 1957	1.480	7-5 1969	2.054	7-5 1969	2.131	1-21 1959	2.330	1-21 1955	2.330	3-4 1968	2.660

NOTES: Watershed conditions: Cover of wheat to corn. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.10-6. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.10-1 and 26.30-3. Precipitation data from rain gage Y103. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1972 DAILY AIE TEMPERATURE (degrees F)												COSBOCTON, CHIC WATERSHED 123												
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	43	23	31	23	65	60	46	33	78	65	86	85	63	82	63	81	60	56	36	55	42	42	28	
2	35	26	38	26	60	20	38	31	65	54	78	56	78	59	76	75	60	62	58	50	62	50	52	28
3	43	22	39	16	25	18	51	33	72	60	82	63	72	69	79	66	62	58	72	50	54	40	48	33
4	38	30	15	4	34	18	48	34	57	46	83	60	74	58	72	55	67	56	65	51	45	38	46	31
5	31	15	17	0	32	19	58	31	66	40	78	57	64	51	74	49	69	50	68	54	46	33	58	40
6	23	15	31	16	36	12	70	35	78	54	73	56	72	54	74	54	74	50	62	66	61	33	62	18
7	34	21	16	3	54	36	35	22	75	55	76	54	74	54	76	62	78	54	57	41	50	40	28	12
8	34	20	12	-3	42	20	29	20	61	54	81	56	78	58	69	56	72	60	67	38	50	37	41	21
9	43	34	16	4	30	20	46	22	56	45	82	52	82	65	64	54	68	52	52	36	43	26	40	20
10	47	35	21	3	30	24	58	39	58	38	55	44	78	66	70	48	72	58	52	33	52	34	37	20
11	49	25	27	17	60	24	64	53	70	43	70	38	85	66	74	52	77	58	64	43	50	37	27	18
12	47	29	29	23	63	43	71	50	75	51	78	52	84	69	77	62	77	68	60	44	54	33	62	28
13	35	16	31	1	52	36	56	36	67	56	78	56	78	68	84	70	80	62	74	47	45	27	63	24
14	25	11	41	27	55	32	64	45	74	58	86	68	84	70	84	60	72	56	64	38	46	31	32	24
15	11	-9	42	29	38	32	72	59	68	56	83	69	75	68	75	58	75	52	50	35	36	29	34	16
16	-3	-13	31	24	48	38	71	52	66	54	78	57	76	64	78	55	76	53	55	40	35	28	18	8
17	33	3	38	22	48	38	66	45	68	55	71	52	77	67	76	66	85	64	54	36	43	25	20	5
18	47	35	34	26	40	27	75	46	76	54	81	57	85	68	82	67	78	67	37	30	37	29	36	14
19	45	32	25	15	47	25	74	57	79	58	86	73	86	70	78	65	72	56	40	19	35	31	40	32
20	48	31	21	9	56	35	60	40	72	62	74	66	90	70	80	61	72	49	46	23	40	33	44	34
21	32	30	46	21	72	45	59	40	81	62	70	54	90	74	80	61	77	51	50	34	40	28	45	36
22	54	32	22	14	52	30	63	49	80	60	55	47	88	74	81	62	63	44	63	47	35	27	42	35
23	41	35	33	13	30	25	63	48	81	65	54	48	88	72	76	66	67	42	62	46	33	23	43	34
24	60	32	36	32	32	24	54	40	64	56	54	83	65	83	65	82	66	69	66	47	40	32	43	36
25	48	15	43	31	33	20	47	35	83	62	70	56	79	63	81	65	74	66	45	39	38	24	36	34
26	25	12	35	26	45	24	57	33	75	56	70	60	75	59	82	68	73	66	54	35	35	29	36	28
27	17	9	43	23	50	33	57	39	77	49	77	59	70	62	73	61	68	52	67	27	35	31	35	24
28	20	6	35	49	47	37	54	37	74	54	78	54	72	59	72	59	66	57	47	37	37	37	37	24
29	25	2	64	46	48	30	68	49	82	56	76	64	70	56	79	58	66	57	57	40	36	19	46	26
30	21	5			46	35	73	52	73	61	74	62	76	60	78	59	57	43	43	34	32	26	61	42
31	21	-3			53	31			62	46			79	66	80	59			46	34			60	34
AV.	35	19	33	19	46	29	59	41	72	54	74	57	79	64	77	60	72	56	56	40	44	32	42	26
SEAN	27.2	2	26.0		37.9		50.1		63.4		65.5		71.8		68.7		64.1		47.9		37.7		34.4	
STA AV	35	19	33	19	46	29	59	41	72	54	74	57	79	64	77	60	72	56	56	40	44	32	42	26

NOTES: Temperature data based on records at North Appalachian Experimental Watershed. STA AV is for 34 yr (1939-72) record period.

1972					DAILY PRECIPITATION (inches)								COSHOCTON, OHIO WATERSHED 123										
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.35	0.10	0.09E	0.0 T	0.0	0.0	0.0	0.0	0.56E	0.02S											
2	0.26	0.0	0.67H	0.02E	0.0	0.10	0.0	0.39	0.03E	0.0	1.03	0.0											
3	0.0	0.29H	0.0	0.05	0.0	0.0	0.12	0.0	0.17	0.0	0.0	0.0											
4	0.15Z	0.0	0.04S	0.00E	0.07	0.0	0.04E	0.0	0.0	0.19E	0.0	0.0											
5	0.16Z	0.0	0.0 T	0.0	0.0	0.0	0.21	0.0	0.0	0.0 T	0.0	0.0											
6	0.0	0.27S	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.63											
7	0.0	0.15	0.94H	0.0	0.0	0.0	0.28E	0.0	0.0	0.0	1.32E	0.0											
8	0.0	0.0	0.0 T	0.0	0.51	0.0	0.21	0.44	0.0	0.0	0.11	0.65H											
9	0.20	0.0	0.02S	0.0	0.62	0.0	0.66	0.0	0.0	0.0	0.0	0.01E											
10	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.10E	0.03E											
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
12	0.0	0.05	0.31	0.25	0.0	0.0	0.0	0.0	0.02E	0.52	0.0	0.0											
13	0.08H	0.91H	0.23E	0.08	0.38	0.0	0.06E	0.0	0.26	0.0	0.79	0.19H											
14	0.0	0.0	0.23S	0.0	0.29	0.0	0.0	0.65	0.0	0.27E	0.0	0.0											
15	0.0	0.07	0.0	0.0	0.08	0.55	0.26	0.0	0.0	0.0	0.40H	0.0											
16	0.0	0.0	0.40	0.67E	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.04S											
17	0.0	0.0	0.05E	0.0	0.12	0.0	0.0	1.20	0.04	0.0	0.0	0.0											
18	0.00E	0.06S	0.0	0.0	0.0	0.0	0.0	0.05	0.58	0.20H	0.0	0.0											
19	0.0	0.0 T	0.0	0.46	0.0	0.0	0.0	0.10	0.0	0.0	0.43	0.15E											
20	0.03E	0.0	0.05E	0.43	0.0	0.10E	0.0	0.0	0.0	0.0	0.05	0.05											
21	0.0	0.0	0.12	0.30	0.0	0.15Z	0.0	0.0	0.0	0.0	0.0	0.07E											
22	0.19	0.0 T	0.23H	0.10	0.0	0.15Z	0.0	0.08E	0.0	0.0	0.0	0.0											
23	0.13	0.09S	0.0 T	0.05	0.0	0.15Z	0.20	0.0	0.10E	0.19E	0.0	0.0											
24	0.0	0.0	0.0 T	0.0	0.0	0.15Z	0.13	0.0	0.23	0.0 T	0.0	0.0											
25	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.17	0.0	0.10H	0.0											
26	0.0	0.07H	0.0	0.0	0.0	0.15E	0.0	0.08E	0.21	0.0	0.06H	0.20H											
27	0.00Z	0.0	0.01E	0.0	0.0	0.0	0.24E	0.0	0.23	0.05E	0.05S	0.0											
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.14S	0.0											
29	0.0	0.0	0.16	0.0	0.07E	0.19E	0.0	0.0	0.15	0.0	0.0	0.0											
30	0.0	0.0	0.0	0.09E	0.31	0.0	0.0	0.0	0.70	0.0	0.02S	0.0											
31	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.11	0.68E	0.0											
TOTAL	1.42	1.81	3.02	5.13	2.68	3.49	2.59	2.62	3.74	1.59	5.03	3.04											
STA AV	2.68	2.40	3.41	3.51	3.82	4.11	4.39	2.79	2.62	2.20	2.63	2.44											

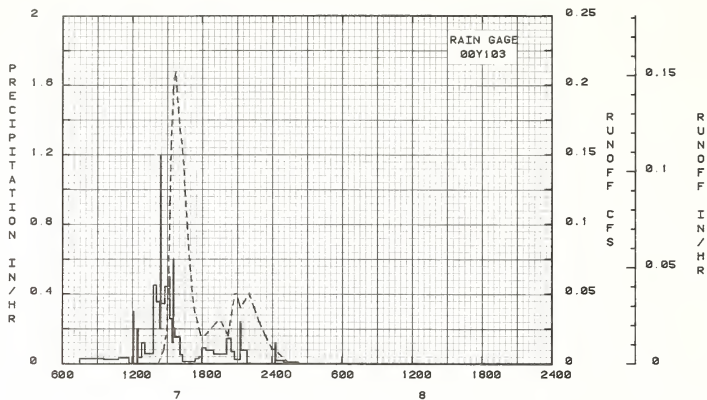
NOTES: Precipitation amounts are for rain gage Y103. STA AV based on 30 yr period. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1972						MEAN DAILY DISCHARGE (cfs)						COSHOCTON, OHIO WATERSHED 123										
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec										
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										0.002
7	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.021	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.002
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
13	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.007	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.008E	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
16	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
20	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0.0	0.0
MEAN	0.0	0.0	0.0001	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0013	0.0001										
INCHES	0.0	0.0	0.034	0.415	0.0	0.003	0.0	0.000	0.001	0.0	0.059	0.078										
STA AV	0.361	0.384	0.414	0.273	0.133	0.257	0.207	0.065	0.044	0.016	0.025	0.114										

NOTES: To convert CFS to IN/DAY, multiply by 17.3735. STA AV based on 34 yr period.

1972	SELECTED RUNOFF EVENT					COSHOCTON, OHIO					WATERSHED 123				
ANTECEDENT CONDITIONS			RAINFALL			RUNCFF									
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Date (cfs)	Acc. (inches)					
EVENT OF NOVEMBER 7 - 8, 1972															
BG 00Y103			BG 00Y103												
11- 7	0.0	0.0	11- 7	730	0.0	0.0	11- 7	1415	0.0	0.0					
				935	0.0488	0.06		1442	0.009	0.0015					
				1051	0.0237	0.09		1454	0.020	0.0036					
				1144	0.0340	0.12		1458	0.020	0.0046					
				1204	0.0	0.12		1504	0.046	0.0070					
WATERSHED CONDITIONS: No-till corn.				1208	0.3001	0.14		1507	0.053	0.0067					
				1226	0.0	0.14		1508	0.067	0.0095					
				1232	0.2000	0.16		1513	0.108	0.0147					
				1250	0.0333	0.17		1514	0.118	0.0160					
				1305	0.1200	0.20		1520	0.160	0.0262					
				1349	0.0546	0.24		1531	0.156	0.0499					
				1405	0.4500	0.36		1542	0.209	0.0768					
				1422	0.3530	0.46		1557	0.184	0.1124					
				1425	0.1599	0.47		1620	0.149	0.1585					
				1427	1.1998	0.51		1642	0.059	0.1915					
				1448	0.3429	0.63		1657	0.067	0.2065					
				1507	0.4421	0.77		1717	0.041	0.2195					
				1513	0.4999	0.42		1754	0.020	0.2331					
				1527	0.2572	0.88		1814	0.020	0.2379					
				1532	0.1199	0.89		1916	0.030	0.2566					
				1534	0.6001	0.91		1938	0.030	0.2646					
				1540	0.1559	0.93		2012	0.025	0.2759					
				1608	0.1500	1.00		2046	0.046	0.2913					
				1620	0.0500	1.01		2057	0.046	0.2964					
				1725	0.0092	1.02		2116	0.041	0.3064					
				1745	0.0300	1.03		2200	0.046	0.3295					
				1800	0.0400	1.04		2226	0.041	0.3430					
				1820	0.0900	1.07		2252	0.030	0.3541					
				1900	0.0750	1.12		2324	0.020	0.3638					
				2007	0.0537	1.18		2400	0.009	0.3701					
				2028	0.1429	1.23	11- 8	10	0.006	0.3710					
				2046	0.0667	1.25		129	0.002	0.3748					
				2115	0.0207	1.26		206	0.0	0.3752					
				2120	0.2401	1.28		214	0.0	0.3752					
				2152	0.0750	1.32									
			11- 8	15	0.0	1.32									
				20	0.1201	1.33									
				100	0.0150	1.34									
				217	0.0078	1.35									

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.72389455.



EVENT OF NOVEMBER 7 - 8, 1972
COSHOCTON, OHIO WATERSHED 123

COSHOCTON, OHIO WATERSHED 109

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 11 sec. N.; Long. 81 deg. 47 min. 39 sec. W.

AREA: 1.69 acres

		COSHOCTON, OHIO WATERSHED 109											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1972	P	1.43	1.68	2.90	4.08	2.67	3.70	2.84	2.55	3.76	1.69	4.67	2.57
	Q	0.0	0.0	0.0	0.101	0.0	0.266	0.0	0.0	0.0	0.0	0.016	0.001
STA AV	P	2.58	2.27	3.35	3.45	3.83	4.11	4.42	2.73	2.65	2.15	2.58	2.34
	Q	0.066	0.184	0.119	0.04	0.094	0.249	0.278	0.138	0.044	0.010	0.001	0.016

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Maximum Discharge Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972		6-13	0.945	6-13	0.186	6-13	0.200	6-13	0.202	6-13	0.202	6-13	0.202
												7- 2	0.266

MAXIMUMS FOR PERIOD OF RECORD													
		5-17	4.340	6-29	0.820	6-28	1.090	7- 5	1.416	3- 4	1.920	3- 4	2.170
		1941		1941		1940		1969		1963		1963	

NOTES: Watershed conditions: Cover of wheat to corn. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.13-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.13-1 and 26.30-3. Precipitation data from rain gage 1102. Precipitation and runoff records began Nov. 1938. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1972		COSHOCTON, OHIO WATERSHED 109											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.38	0.10	0.09E	0.0 T	0.0	0.0	0.0	0.0	0.0	0.56E	0.01S
2	0.27	0.0	0.53E	0.02E	0.0	0.05E	0.0	0.42	0.05E	0.0	1.02	0.0	0.0
3	0.0	0.28E	0.0	0.03	0.0	0.0	0.12	0.0	0.16E	0.0	0.0	0.0	0.0
4	0.18E	0.0	0.01E	0.09	0.07	0.0	0.05E	0.0	0.0	0.24E	0.0	0.0	0.29
5	0.17E	0.0	0.01E	0.0	0.0	0.0	0.20	0.0	0.0	0.0 T	0.0	0.0	0.0
6	0.0	0.20S	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.64	0.0
7	0.0	0.0	0.20	0.82E	0.0	0.0	0.0	0.25E	0.0	0.0	1.34E	0.0	0.0
8	0.0	0.0	0.0 T	0.0	0.50	0.0	0.31E	0.43	0.0	0.0	0.12	0.64E	0.0
9	0.20	0.0	0.03S	0.0	0.55	0.0	0.65	0.0	0.0	0.0	0.0	0.01E	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.10E	0.03E	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.05	0.26	0.26	0.0	0.0	0.0	0.0	0.01E	0.58E	0.0	0.10E	0.0
13	0.09E	0.88E	0.21E	0.79	0.37	1.73	0.11E	0.0	0.24	0.0	0.70	0.21E	0.0
14	0.0	0.0	0.24S	0.0	0.26	0.05	0.0	0.0	0.63	0.0	0.24	0.0	0.0
15	0.0	0.10	0.0	0.0	0.10	0.59	0.23	0.0	0.0	0.0	0.0	0.40E	0.0
16	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.03S	0.0
17	0.0	0.0	0.05E	0.0	0.11	0.0	0.0	1.18	0.04	0.0	0.0	0.0	0.0
18	0.04	0.02S	0.0	0.0	0.0	0.0	0.0	0.05E	0.68	0.20E	0.0	0.0	0.0
19	0.0	0.0 T	0.0	0.50	0.0	0.0	0.0	0.07E	0.0	0.0	0.38	0.15	0.0
20	0.03E	0.0	0.04E	0.41	0.0	0.08E	0.0	0.0	0.0	0.0	0.05	0.05	0.0
21	0.0	0.0	0.12	0.30	0.0	0.16E	0.0	0.0	0.0	0.0	0.0	0.06E	0.0
22	0.20	0.0 T	0.24E	0.07E	0.0	0.17E	0.0	0.07E	0.0	0.0	0.0	0.02E	0.0
23	0.15	0.07S	0.0 T	0.08E	0.0	0.16E	0.25	0.0	0.10E	0.21E	0.0	0.0	0.0
24	0.0	0.0	0.0 T	0.0	0.0	0.17E	0.14	0.0	0.26	0.0 T	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.18	0.0	0.10E	0.0	0.0
26	0.0	0.08E	0.0	0.0	0.0	0.20	0.0	0.08E	0.21	0.0	0.05E	0.22E	0.0
27	0.05E	0.0	0.03E	0.0	0.0	0.0	0.24E	0.0	0.19	0.05E	0.05S	0.0	0.0
28	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.14S	0.0	0.0	0.0
29	0.0	0.0	0.15	0.0	0.07E	0.21E	0.0	0.0	0.15	0.39	0.0	0.0	0.0
30	0.0	0.0	0.09E	0.30	0.0	0.0	0.0	0.0	0.62	0.0	0.02S	0.0	0.0
31	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.11	0.0	0.07E	0.0	0.0
TOTAL		1.43	1.68	2.90	4.08	2.67	3.70	2.84	2.55	3.76	1.69	4.67	2.57
STA AV		2.58	2.27	3.35	3.45	3.83	4.11	4.42	2.73	2.65	2.15	2.58	2.34

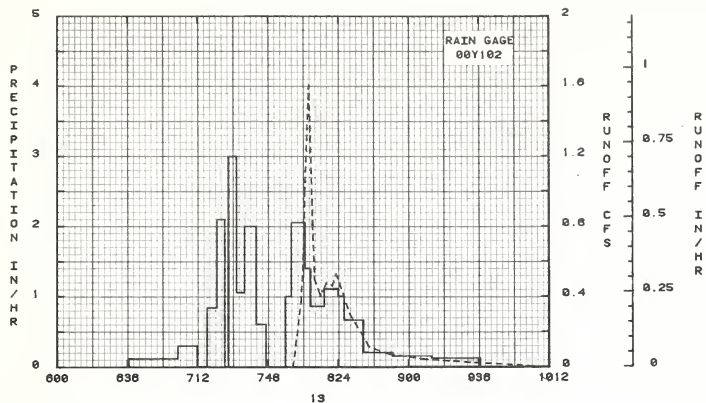
NOTES: For daily air temperatures in the vicinity, see table for watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 1102. STA AV based on 35 yr period, part-year records included. Codes "E" may reflect estimated storm duration rather than estimated rainfall amounts. Code "T" indicates accurately measured total for a series of days has been equally divided among coded days.

1972 BRAN DAILY DISCHARGE (cfs)						COSHOCTON, OHIO WATERSEED 105						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.007E	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.014E	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.004E	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0002	0.0	0.0006	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.101	0.006	0.006	0.0	0.0	0.0	0.0	0.016	0.001
STA AV	0.066	0.184	0.119	0.046	0.094	0.249	0.278	0.138	0.044	0.010	0.001	0.016

NOTES: To convert CFS to IN/DAY, multiply by 14.0838. STA AV based on 35 yr period, part-year records included.

1972 SELECTED RUNCFF EVENT						COSHOCTON, OHIO WATERSHED 105					
ANTECEDENT CONDITIONS			RAINFALL				RUNCFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 13, 1972											
RG 00Y102			RG 00Y102								
6-13	0.0	0.0	6-13	637	0.0	0.0	6-13	801	0.0	0.0	
				702	0.1200	0.05		805	0.365	0.0071	
				712	0.3000	0.10		806	0.550	0.0116	
				717	0.0	0.10		807	1.020	0.0192	
				722	0.8400	0.17		809	1.610	0.0450	
WATERSHED CONDITIONS: Conventional corn.			726	2.1000	0.31		811	0.805	0.0685		
			728	0.0	0.31		812	0.505	0.0750		
			732	3.0000	0.51		815	0.403	0.0683		
			736	1.0500	0.58		818	0.484	0.1013		
			742	2.0000	0.78		821	0.463	0.1152		
			747	0.6000	0.83		823	0.527	0.1249		
			757	0.0	0.83		830	0.256	0.1531		
			800	1.0000	0.88		840	0.113	0.1731		
			807	2.0571	1.12		850	0.069	0.1820		
			810	1.4001	1.15		910	0.035	0.1522		
			817	0.8572	1.29		1005	0.004	0.2027		
			824	1.1182	1.42		1043	0.0	0.2034		
			827	1.0001	1.47						
			837	0.6600	1.58						
			852	0.2000	1.63						
			912	0.1500	1.68						
			937	0.1200	1.73						

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.58682576.



EVENT OF JUNE 13, 1972
COSHOCTON, OHIO WATERSHED 109

COSBOCTON, OHIO WATERSHED 196

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Hocking River Basin. Lat. 40 deg. 21 min. 38 sec. N.; long. 81 deg. 47 min. 07 sec. W.

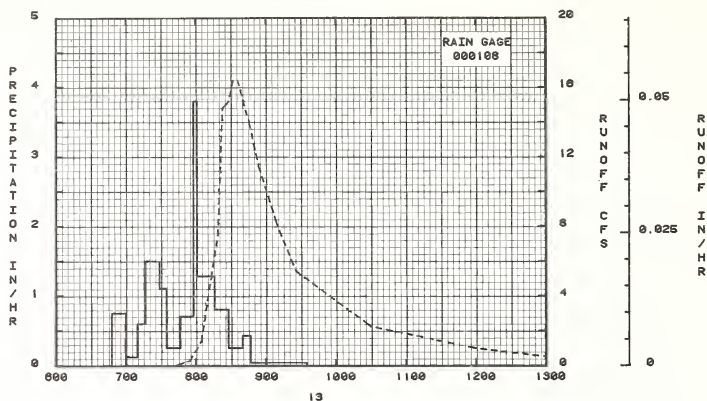
AREA: 303.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSBOCTON, OHIO WATERSHED 196															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1972	P	1.45	1.79	3.01	5.18	2.69	3.80	2.69	2.32	3.78	1.58	5.08	2.51	36.28															
	Q	0.458	1.197	2.552	3.575	0.806	0.335	0.267	0.103	0.116	0.094	1.738	2.222	13.46															
STA AV	P	2.63	2.38	3.48	3.41	3.78	4.19	4.34	2.69	2.67	2.17	2.55	2.39	36.69															
	Q	1.691	1.897	2.820	2.345	1.478	0.993	0.696	0.271	0.220	0.197	0.430	0.988	14.027															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
Maximum Discharge															Maximum Volume for Selected Time Interval														
															1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	4-13	0.084	4-7	0.078	4-7	0.148	4-7	0.295	4-7	0.387	4-6	0.504	4-6	0.651	4-6	1.577													
MAXIMUMS FOR PERIOD OF RECORD																													
		6-12	3.720	6-12	1.310	6-12	1.440	7-5	2.106	7-5	2.453	1-21	2.920	1-20	3.210	3-4	4.630												
		1957		1957		1957		1969		1969		1959		1959		1964													

NOTES: Watershed conditions: Woods, 27%; grassland, 50%; miscellaneous, 23%; watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.30-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.30-1 and 26.30-3. Precipitation data from rain gage 108. Precipitation and runoff records began May 1937. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1972 DAILY PRECIPITATION (inches)													COSBOCTON, OHIO WATERSHED 196
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.40	0.09	0.12E	0.02E	0.0	0.0	0.0	0.0	0.52	0.01E	
2	0.25	0.0	0.62E	0.03E	0.0	0.07	0.0	0.25	0.05E	0.0	1.04	0.0	
3	0.0	0.28E	0.0	0.05	0.0	0.0	0.19E	0.02E	0.26	0.0	0.0	0.0	
4	0.15E	0.0	0.02E	0.07	0.06E	0.0	0.02E	0.0	0.0	0.18	0.0	0.23E	
5	0.15E	0.0	0.03E	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.25E	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.55	
7	0.0	0.0	0.18	0.92E	0.0	0.0	0.0	0.15	0.0	0.0	1.35E	0.0	
8	0.0	0.0	0.0	0.0	0.50	0.0	0.23	0.43	0.82	0.12	0.0	0.68E	
9	0.25	0.0	0.02E	0.0	0.58	0.0	0.63	0.0	0.0	0.0	0.0	0.01E	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.09E	0.04E	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.06	0.20	0.25	0.0	0.0	0.0	0.0	0.01E	0.50	0.0	0.11E	
13	0.10E	0.85E	0.26	0.85	0.37	1.63	0.06E	0.0	0.30	0.0	0.76	0.20E	
14	0.0	0.0	0.27E	0.0	0.30	0.02	0.0	0.0	0.60	0.0	0.27	0.0	
15	0.0	0.05	0.0	0.0	0.18	0.0	0.22	0.0	0.0	0.0	0.0	0.39E	
16	0.0	0.0	0.40	0.75	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.03E	
17	0.0	0.0	0.05E	0.0	0.08	0.0	0.0	1.15	0.04	0.0	0.0	0.0	
18	0.05E	0.05E	0.0	0.0	0.0	0.0	0.0	0.05	0.43	0.20E	0.0	0.0	
19	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.10	0.0	0.0	0.43	0.16	
20	0.05E	0.0	0.0	0.45	0.0	0.09	0.0	0.0	0.0	0.0	0.05	0.11	
21	0.0	0.0	0.15	0.35	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	0.03E	
22	0.20	0.0	0.25E	0.05E	0.0	0.15E	0.0	0.05	0.0	0.0	0.0	0.02E	
23	0.15	0.11E	0.0	0.05E	0.0	0.16E	0.20	0.11	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.15E	0.11	0.0	0.32	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.18	0.0	0.10E	0.0	
26	0.0	0.10E	0.0	0.0	0.0	0.15	0.01	0.04E	0.18	0.0	0.12E	0.20E	
27	0.05E	0.0	0.01E	0.0	0.0	0.0	0.24	0.0	0.20	0.05	0.07E	0.0	
28	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.15E	0.0	
29	0.0	0.0	0.15	0.0	0.10	0.15E	0.0	0.82	0.15	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.05E	0.25	0.0	0.0	0.68	0.0	0.01E	0.15	0.0	
31	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.14	0.0	0.12	
TOTAL	1.45	1.75	3.01	5.18	2.69	3.60	2.65	2.32	3.78	1.58	5.08	2.51	
STA AV	2.63	2.38	3.48	3.41	3.78	4.19	4.34	2.65	2.67	2.17	2.55	2.35	

NOTES: For daily air temperatures in the vicinity, see table for watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 108. STA IV based on 36 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.



EVENT OF JUNE 13, 1972
COSHOCTON, OHIO WATERSHED 196

COSBOCTON, OHIO WATERSHED 174

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 21 min. 50 sec. N.; Long. 81 deg. 47 min. 32 sec. W.

AREA: 52.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						COSBOCTON, OHIO WATERSHED 174							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	1.38	1.01	2.88	4.72	2.52	3.48	2.46	2.32	3.75	1.56	0.55	2.46	34.06
STA AV P	0.215	0.809	1.532	2.263	0.311	0.143	0.090	0.036	0.060	0.010	1.496	1.613	8.575
Q	2.18	2.17	3.42	3.33	3.27	2.91	3.92	2.36	2.54	1.80	2.69	2.52	33.09
Q	0.772	1.200	2.154	1.505	0.673	0.258	0.461	0.075	0.047	0.064	0.268	0.533	8.006
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	4-13	0.109	11-7	0.093	4-7	0.165	4-7	0.302	4-6	0.374	4-6	0.453	4-6
													0.535
													4-6
													1.052
MAXIMUMS FOR PERIOD OF RECORD													
	7-5	1.085	4-25	0.820	4-25	1.110	7-5	1.802	7-5	2.154	7-5	2.365	3-9
	1969		1961		1961		1969		1969		1969		1964
													1964

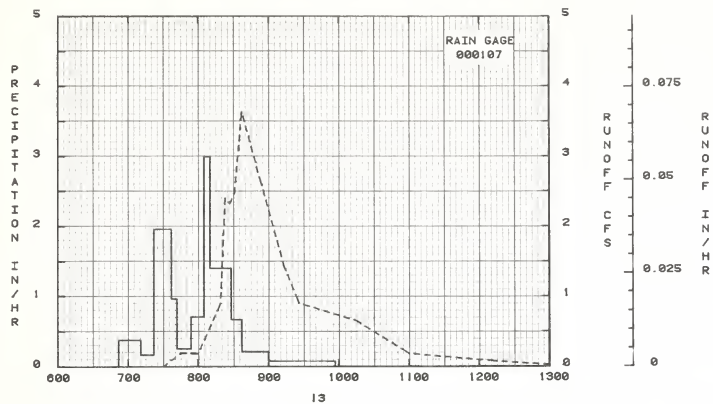
NOTES: Watershed conditions: cover of 15% hardwoods, 2% reforested, 67% grassland, 16% miscellaneous, watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 26-36-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26-38-1 and 26-30-3. Precipitation data from rain gauge 107. Precipitation and runoff records began June 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1972 DAILY PRECIPITATION (inches)						COSBOCTON, OHIO WATERSHED 174							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.40	0.08	0.07E	0.06E	0.0	0.0	0.0	0.0	0.54	0.01S	
2	0.20	0.0	0.08	0.03E	0.0	0.05E	0.0	0.35	0.02E	0.0	1.63	0.0	
3	0.0	0.27H	0.0	0.05	0.0	0.0	0.09E	0.0	0.22	0.0	0.0	0.0	
4	0.18E	0.0	0.02E	0.08	0.05E	0.0	0.02E	0.0	0.0	0.24	0.0	0.22E	
5	0.17E	0.0	0.03E	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.24S	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.55	
7	0.0	0.0	0.17	0.82E	0.0	0.0	0.0	0.18	0.0	0.0	1.37	0.0	
8	0.0	0.0	0.0	0.17	0.44	0.0	0.20	0.41	0.0	0.0	0.05	0.67E	
9	0.19	0.0	0.03E	0.0	0.57	0.0	0.60	0.0	0.0	0.0	0.0	0.01E	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.091	0.03E	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.05	0.19	0.23	0.0	0.0	0.0	0.0	0.01E	0.45	0.0	0.11E	
13	0.08H	0.88	0.23	0.73	0.38	1.82	0.04	0.0	0.33	0.0	0.75	0.18E	
14	0.0	0.0	0.25S	0.0	0.29	0.0	0.0	0.0	0.58	0.0	0.25	0.0	
15	0.0	0.07	0.0	0.0	0.14	0.43	0.19	0.0	0.0	0.0	0.0	0.40E	
16	0.0	0.0	0.40	0.67	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.03S	
17	0.0	0.0	0.05E	0.0	0.10	0.0	0.0	1.15E	0.05	0.0	0.0	0.0	
18	0.04E	0.16S	0.0	0.0	0.0	0.0	0.0	0.05	0.57	0.19H	0.0	0.0	
19	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.10	0.0	0.0	0.39	0.14	
20	0.05E	0.0	0.0	0.45	0.0	0.06	0.0	0.0	0.0	0.0	0.07	0.12	
21	0.0	0.0	0.12	0.35	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	0.04E	
22	0.20	0.0	0.23S	0.05	0.0	0.14E	0.0	0.03E	0.0	0.0	0.0	0.02E	
23	0.15	0.11S	0.0	0.05	0.0	0.15E	0.20	0.0	0.10E	0.19	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.15E	0.11	0.0	0.29	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.17	0.0	0.08E	0.0	
26	0.0	0.09H	0.0	0.0	0.0	0.22	0.0	0.05	0.16	0.0	0.08H	0.18E	
27	0.06E	0.0	0.01E	0.0	0.0	0.0	0.21	0.0	0.21	0.05E	0.05S	0.0	
28	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.15S	0.0	0.0	
29	0.0	0.0	0.15	0.0	0.05	0.15E	0.0	0.0	0.35	0.15	0.0	0.0	
30	0.0	0.0	0.0	0.03E	0.27	0.0	0.0	0.0	0.69	0.0	0.01S	0.0	
31	0.0		0.0		0.16		0.0	0.0		0.11		0.11	
TOTAL	1.38	1.81	2.88	4.72	2.52	3.48	2.46	2.32	3.75	1.56	4.55	2.86	
STA AV	2.18	2.17	3.42	3.33	3.27	2.51	3.92	2.36	2.54	1.80	2.69	2.52	

NOTES: For daily air temperatures in the vicinity, see table for watershed 123, p. 26.010-1. Precipitation amounts are for rain gauge 107. STA AV based on 13 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1972		MEAN DAILY DISCHARGE (cfs)						CUSHOCK, CHIC WATSESEE 174					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.010	0.002	0.162	0.019	0.024	0.006	0.001	0.0	0.0	0.001	0.000	0.030	
2	0.052	0.004	0.366	0.019	0.024	0.003	0.0	0.002	0.0	0.0	0.395	0.026	
3	0.020	0.010	0.204	0.017	0.019	0.002	0.001	0.0	0.0	0.0	0.051	0.024	
4	0.032	0.009	0.155	0.015	0.017	0.001	0.0	0.0	0.0	0.001	0.019	0.053	
5	0.049	0.004	0.090	0.011	0.013	0.0	0.003	0.0	0.0	0.0	0.015	0.054	
6	0.015	0.003	0.059	0.040	0.010	0.0	0.0	0.0	0.0	0.0	0.011	0.083	
7	0.008	0.003	0.139	0.096	0.008	0.001	0.001	0.001	0.0	0.0	0.722	0.057	
8	0.007	0.000	0.180	0.024	0.007	0.003	0.003	0.0	0.0	0.0	0.166	0.514	
9	0.032	0.004	0.059	0.126	0.134	0.0	0.0	0.005	0.0	0.0	0.0	0.220	
10	0.048	0.003	0.055	0.089	0.039	0.001	0.130	0.0	0.0	0.0	0.043	0.141	
11	0.025	0.003	0.055	0.064	0.027	0.001	0.005	0.0	0.0	0.0	0.036	0.094	
12	0.015	0.003	0.052	0.048	0.019	0.001	0.004	0.0	0.0	0.012	0.022	0.102	
13	0.011	0.389	0.161	0.761	0.027	0.175	0.003	0.0	0.0	0.002	0.377	0.216	
14	0.007	0.198	0.105	0.155	0.060	0.006	0.002	0.0	0.008	0.0	0.525	0.073	
15	0.003	0.299	0.126	0.105	0.051	0.045	0.004	0.0	0.0	0.0	0.094	0.239	
16	0.002	0.154	0.470	0.366	0.036	0.008	0.005	0.0	0.0	0.0	0.064	0.102	
17	0.002	0.122	0.243	0.168	0.033	0.002	0.002	0.057	0.0	0.0	0.044	0.073	
18	0.005	0.116	0.105	0.074	0.027	0.001	0.002	0.003	0.012	0.0	0.030	0.055	
19	0.076	0.094	0.168	0.019	0.0	0.0	0.002	0.001	0.001	0.0	0.058	0.075	
20	0.005	0.048	0.068	0.066	0.017	0.0	0.001	0.0	0.0	0.0	0.117	0.206	
21	0.005	0.044	0.068	0.205	0.015	0.0	0.0	0.0	0.0	0.0	0.044	0.102	
22	0.010	0.038	0.078	0.293	0.011	0.002	0.0	0.0	0.0	0.0	0.036	0.055	
23	0.039	0.024	0.069	0.158	0.007	0.016	0.0	0.0	0.0	0.001	0.030	0.078	
24	0.028	0.027	0.047	0.099	0.005	0.005	0.002	0.0	0.001	0.0	0.027	0.064	
25	0.015	0.033	0.039	0.073	0.005	0.003	0.001	0.0	0.0	0.0	0.031	0.055	
26	0.007	0.033	0.036	0.055	0.003	0.022	0.001	0.0	0.002	0.0	0.038	0.075	
27	0.004	0.030	0.030	0.042	0.002	0.006	0.003	0.0	0.005	0.0	0.043	0.052	
28	0.002	0.004	0.027	0.033	0.002	0.002	0.001	0.0	0.002	0.0	0.044	0.044	
29	0.002	0.064	0.030	0.027	0.002	0.002	0.002	0.0	0.016	0.003	0.030	0.039	
30	0.002	0.027	0.024	0.002	0.002	0.002	0.0	0.0	0.008	0.0	0.029	0.039	
31	0.002	0.019	0.005	0.005	0.005	0.0	0.0	0.0	0.0	0.0	0.045	0.045	
MEAN	0.0154	0.0619	0.1056	0.1673	0.0223	0.0106	0.0064	0.0026	0.0045	0.0007	0.1107	0.1155	
INCHES	0.215	0.809	1.532	2.263	0.311	0.143	0.050	0.036	0.060	0.010	1.496	1.613	
STA AV	0.772	1.200	2.154	1.505	0.673	0.254	0.461	0.075	0.047	0.064	0.268	0.533	

1972 SELECTED SUNCPP EVENTS						COSHOCTON, OHIO						WATERBURY 174					
APRIL 20 DBT CONDITIONS			HAIRFALL			BUNCPP											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Time	Acc.	Date	Time	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	Mo-Day	of Day	(cfs)	Mo-Day	of Day	(inches)			
EVENT OF JUNE 13, 1972																	
6-13	RG 000107	0.0	6-13	EG 000107	652	0.0	6-13	730	0.001	0.0							
					711	0.3789	0.12		745	0.195	0.0005						
					722	0.1636	0.15		800	0.179	0.0014						
					737	1.5600	0.64		819	0.903	0.0046						
					742	0.9600	0.72		823	2.400	0.0067						
WATERBURY CONDITIONS:																	
Cover of 15%, hardwoods; 2%,					754	0.2500	0.77		827	2.320	0.0057						
reforested; 67%, grassland;					805	0.7091	0.90		831	2.480	0.0127						
16%, miscellaneous; watershed					810	3.0000	1.15		837	3.480	0.0188						
in improved practice.					828	1.4000	1.57		853	2.650	0.0342						
					837	0.6667	1.67		913	1.440	0.0470						
					900	0.2087	1.75		926	0.903	0.0518						
					957	0.0737	1.82		1015	0.653	0.0637						
									1100	0.179	0.0656						
									1215	0.073	0.0726						
									1800	0.17	0.0775						
									2400	0.010	0.0790						



COSHOCTON, OHIO WATERSHED 194

LOCATION: Coshocton Co., Ohio 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 21 min. 47 sec. N.; Long. 81 deg. 47 min. 23 sec. W.

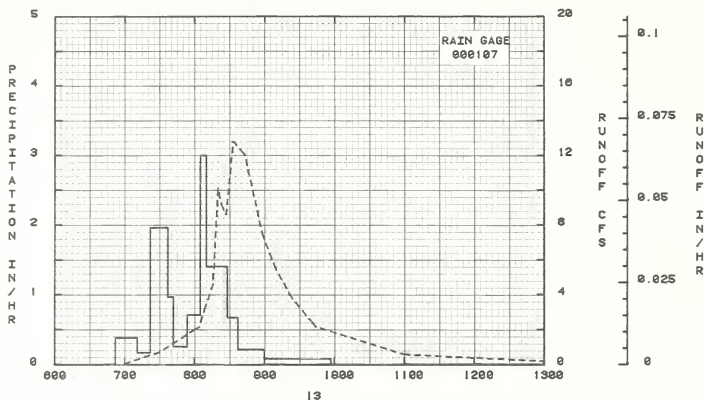
AREA: 167.00 acres

MONTHLY PRECIPITATIONS AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 194													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1972	P	1.38	1.81	2.88	4.72	2.52	3.48	2.46	2.32	3.75	1.56	4.55	2.66	34.69													
	Q	0.487	1.067	2.198	3.118	0.713	0.295	0.238	0.102	0.692	0.062	1.693	2.156	12.222													
STA AV	P	2.23	2.24	3.24	3.20	3.24	2.91	3.92	2.36	2.54	1.80	2.69	2.52	32.88													
	Q	1.221	1.691	2.973	2.212	1.324	0.527	0.632	0.142	0.103	0.153	0.428	0.843	12.250													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
Maximum Discharge														Maximum Volume for Selected Time Interval													
1 Hour														6 Hours													
2 Hours														12 Hours													
1 Day														2 Days													
8 Days																											
Date	Date	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Date	Date	Vol.	Date	Date	Date	Date	Vol.	Date	Date	Date	Date	Vol.	Date	Date	Vol.		
1972	4-13	0.082	4-7	0.076	4-7	0.142	4-7	0.280	4-6	0.359	4-6	0.456	4-6	0.573	4-12	1.377											
MAXIMUMS FOR PERIOD OF RECORD																											
7-5	0.959	4-25	0.680	4-25	0.930	7-5	1.620	7-5	1.979	7-5	2.265	3-5	2.600	3-4	3.850												
1969		1961		1961		1969		1969		1969		1964		1964													

NOTES: Watershed conditions: Cover of 21% hardwoods, 2% reforested, 58% grassland, 11% cultivated, 8% miscellaneous, watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 554, p. 26-30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26-39-1 and 26-30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Jan. 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1972					COSHOCTON, OHIO WATERSHED 194												
DAILY PRECIPITATION (inches)																	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.0	0.0	0.0	0.0	0.07E	0.06E	0.0	0.0	0.0	0.0	0.54	0.01S					
2	0.20	0.0	0.60H	0.03E	0.0	0.05E	0.0	0.35	0.02E	0.0	1.03	0.0					
3	0.0	0.27H	0.0	0.05	0.0	0.0	0.09E	0.0	0.22	0.0	0.0	0.0					
4	0.18E	0.0	0.02Z	0.08	0.05E	0.0	0.02E	0.0	0.0	0.24	0.0	0.22E					
5	0.17Z	0.0	0.03Z	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0					
6	0.0	0.24S	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.55					
7	0.0	0.0	0.17	0.82H	0.0	0.0	0.0	0.18	0.0	0.0	1.37	0.0					
8	0.0	0.0	0.0	0.0	0.44	0.0	0.20	0.41	0.0	0.09	0.0	0.67H					
9	0.19	0.0	0.03S	0.0	0.57	0.0	0.60	0.0	0.0	0.0	0.0	0.01E					
10	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.05E	0.03E					
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
12	0.0	0.05	0.19	0.23	0.0	0.0	0.0	0.0	0.01E	0.45	0.0	0.11H					
13	0.08H	0.88	0.23	0.73	0.38	1.82	0.04	0.0	0.33	0.0	0.75	0.16H					
14	0.0	0.0	0.25S	0.0	0.29	0.0	0.0	0.0	0.58	0.0	0.25	0.0					
15	0.0	0.07	0.0	0.0	0.14	0.43	0.19	0.0	0.0	0.0	0.0	0.08H					
16	0.0	0.0	0.40	0.67	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.03S					
17	0.0	0.0	0.05E	0.0	0.10	0.0	0.0	1.15E	0.05	0.0	0.0	0.0					
18	0.04E	0.10S	0.0	0.0	0.0	0.0	0.0	0.05	0.57	0.19H	0.0	0.0					
19	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.10	0.0	0.0	0.39	0.14					
20	0.05E	0.0	0.0	0.45	0.0	0.06	0.0	0.0	0.0	0.0	0.07	0.12					
21	0.0	0.0	0.12	0.35	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	0.04E					
22	0.20	0.0	0.23H	0.05	0.0	0.14Z	0.0	0.03E	0.0	0.0	0.0	0.02E					
23	0.15	0.0	0.0	0.0	0.0	0.15E	0.20	0.0	0.10E	0.19	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.0	0.15E	0.11	0.0	0.0	0.29	0.0	0.0					
25	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.17	0.0	0.08H	0.0					
26	0.0	0.09H	0.0	0.0	0.0	0.22	0.0	0.05	0.16	0.0	0.08H	0.18H					
27	0.06Z	0.0	0.01E	0.0	0.0	0.0	0.21	0.0	0.21	0.05E	0.05S	0.0					
28	0.06Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.15S	0.0					
29	0.0	0.0	0.0	0.15	0.05	0.15E	0.0	0.0	0.35	0.15	0.0	0.0					
30	0.0	0.0	0.0	0.03E	0.27	0.0	0.0	0.0	0.0	0.0	0.01S	0.0					
31	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.11					
TOTAL	1.38	1.81	2.88	4.72	2.52	3.48	2.46	2.32	3.75	1.56	4.55	2.86					
STA AV	2.23	2.24	3.24	3.20	3.24	2.91	3.92	2.36	2.54	1.80	2.69	2.52					

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV based on 13 yr period. Codes 'B' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.



EVENT OF JUNE 13, 1972
COSHOCTON, OHIO WATERSHED 194

STILLWATER, OKLAHOMA WATERSHED W-1

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River. Lat. 36 deg. 21 min. N.; Long. 97 deg. 04 min. W.

AREA: 16.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														STILLWATER, OKLAHOMA WATERSHED W-1													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1972	P 0.12	0.34	0.70	2.80	2.25	4.55	3.48	2.06	2.77	5.78	2.13	1.26	28.24														
	Q 0.0	0.0	0.0	0.313	0.571	0.261	0.238	0.0	0.0	0.784	1.229	0.769	4.164														
STA AV	P 0.61	1.01	1.83	2.50	4.65	4.08	3.99	2.67	3.91	2.59	1.51	1.18	30.53														
	Q 0.133	0.293	0.752	0.821	1.564	0.921	0.559	0.059	0.425	0.605	0.386	0.293	6.211														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
Maximum Discharge														Maximum Volume for Selected Time Interval													
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days											
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Date	Date	Date	Date	Date	Date	Vol.		
1972	12-29	0.323		11-12	0.262		11-12	0.401		11-12	0.556		11-12	0.692		11-12	0.800		11-11	0.806		11-12	0.937				
MAXIMUMS FOR PERIOD OF RECORD																											
4-18	6.990	7-15	3.314	7-15	3.737	7-15	3.963	10-2	4.519	7-14	5.185	10-1	5.679	9-29	7.627												
1957		1951		1951		1951		1959		1951		1959		1959													

NOTES: Watershed conditions: All native grass cover in fair condition at the beginning of 1972 growing season. In 1972 there was a light invasion of Annual Bromweed, but the plants did not mature to a tall rank state, as the native grass growth was sufficient to overcome the competition. Measured vegetative cover in September was 2.58 tons per acre. 0.05 ton per acre decrease from 1971. The 10-ft flow portion of the discharge rating for the culvert was revised to agree with field measurements. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 37.1-7 (revised). Precipitation data obtained from R-1 recording rain gage. Precipitation and runoff records began July 1951. STA AV precipitation data from R-3 recording rain gage record through 1964 combined with data from R-1 for 1965 through 1972. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1972 DAILY PRECIPITATION (inches)													STILLWATER, OKLAHOMA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.01	0.0	0.0	0.0	0.70	0.0	1.25	0.0	0.05	0.0	0.0	0.0													
2	0.0	0.04	0.0	0.0	0.0	0.0	0.29	0.0	0.07	0.0	0.06	0.0													
3	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0													
4	0.07	0.0	0.0	0.0	0.0	0.0	0.55	0.33	0.0	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.05	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.33	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0													
10	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
11	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0													
12	0.0	0.0	0.19	0.0	0.58	0.0	0.06	0.0	0.0	0.0	1.18	0.23													
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0													
14	0.0	0.0	0.0	0.01	0.0	0.06	0.0	0.0	0.68	0.0	0.0	0.02													
15	0.0	0.0	0.0	1.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.08	0.0	0.30	0.0	0.0	0.0	0.45	0.0													
19	0.0	0.0	0.0	1.24	0.0	2.40	0.0	0.0	0.0	0.0	0.03	0.0													
20	0.0	0.0	0.33	0.03	0.0	0.0	0.0	0.0	0.05	0.22	0.0	0.0													
21	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.05	2.33	0.12	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.03	0.19	0.0	0.0													
23	0.0	0.0	0.18	0.0	0.0	1.28	0.0	0.27	0.0	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.21	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
27	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.60	0.0	0.0	0.0													
29	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0													
30	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.22	0.0	1.56	0.0	0.0													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.08																
TOTAL	0.12	0.34	0.70	2.80	2.25	4.55	3.48	2.06	2.77	5.78	2.13	1.26													
STA AV	0.61	1.01	1.83	2.50	4.65	4.08	3.59	2.67	3.91	2.59	1.51	1.18													

NOTES: Amounts recorded at rain gage R-1 used for current monthly totals and for runoff events. STA AV based on 22 yr (1951-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)					STILLWATER, OKLAHOMA WATERSHED #-1							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.132	0.0	0.011	0.0	0.0	0.0	0.054	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.069	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.062	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.204	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.059	0.0	0.0	0.0	0.0	0.0	0.428	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.139	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	0.068
19	0.0	0.0	0.0	0.188	0.0	0.030	0.0	0.0	0.0	0.0	0.067	0.044
20	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.021
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.082	0.007
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.005	0.0
23	0.0	0.0	0.0	0.0	0.0	0.048	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.105	0.0	0.0	0.0	0.0	0.0	0.003	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.089	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
27	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.303
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.113	0.0	0.113
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.400	0.084	0.084
MEAN	0.0	0.0	0.0	0.0073	0.0129	0.0061	0.0058	0.0	0.0	0.0177	0.0287	0.0174
INCHES	0.0	0.0	0.0	0.313	0.571	0.261	0.238	0.0	0.0	0.788	1.229	0.769
STA #1	0.133	0.293	0.752	0.821	1.564	0.521	0.559	0.059	0.425	0.605	0.386	0.253

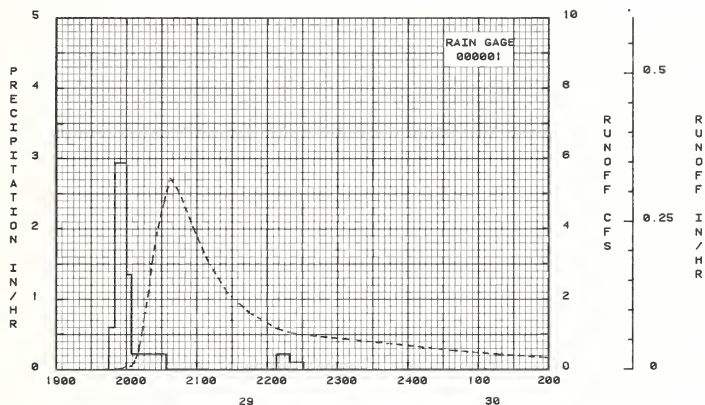
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.425249.

1972 SELECTED RUNOFF EVENT					STILLWATER, OKLAHOMA WATERSHED #-1						
ANTECEDENT CONDITIONS			RAINFALL			SURFACE					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF DECEMBER 29 - 31, 1972											
RG 000001			RG 000001								
12-29	0.0	0.0	12-29	1945	0.0	0.0	12-25	510	0.0	0.0	
				1950	0.6001	0.05		910	0.0	0.0	
				2000	2.5399	0.54		1940	0.0	0.0	
				2004	1.3500	0.63		1952	0.0	0.0	
				2034	0.2200	0.74		1956	0.0	0.0	
WATERSHED CONDITIONS:			2208	0.0064	0.75		1957	0.013	0.0000		
100% of area in native grass			2219	0.2182	0.79		1959	0.042	0.0001		
pasture in fair condition.			2231	0.1000	0.81		2003	0.054	0.0002		
							2005	0.096	0.0004		
							2006	0.165	0.0005		
							2007	0.261	0.0007		
							2008	0.320	0.0011		
							2009	0.406	0.0014		
							2010	0.522	0.0018		
							2012	0.812	0.0032		
							2014	1.223	0.0051		
							2016	1.623	0.0081		
							2019	2.256	0.0139		
							2022	3.058	0.0214		
							2026	3.507	0.0352		
							2032	4.765	0.0613		
							2037	5.439	0.0662		
							2045	5.025	0.1267		
							2057	4.008	0.1822		
							2109	3.058	0.2242		
							2126	2.172	0.2682		
							2144	1.623	0.3021		
							2209	1.143	0.3365		
							2224	1.002	0.3524		
							2306	0.862	0.3911		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.055365.

1972	SELECTED RUNOFF EVENT					STILLWATER, OKLAHOMA WATERSHED N-1				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF DECEMBER 29 - 31, 1972 (CONTINUED)										
							12-29	2400	0.672	0.4322
							12-30	42	0.522	0.4570
								121	0.406	0.4748
								213	0.320	0.4935
								338	0.281	0.5160
								452	0.184	0.5324
								640	0.130	0.5492
								825	0.096	0.5609
								1100	0.067	0.5735
								1330	0.042	0.5816
								1650	0.020	0.5877
							12-31	2400	0.007	0.5534
								830	0.0	0.5952
								1200	0.007	0.5959
								1310	0.007	0.5964
								2400	0.0	0.5987

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385.



EVENT OF DECEMBER 29 - 31, 1972
STILLWATER, OKLAHOMA WATERSHED N-1

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River. Lat. 36 deg. 21 min. N.; Long. 97 deg. 04 min. W.

AREA: 92.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														STILLWATER, OKLAHOMA WATERSHED W-3																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																
1972	P	0.16	0.39	0.70	2.78	2.20	4.54	3.49	1.84	2.44	5.37	2.21	1.21	27.33																
	Q	0.226	0.040	0.0	0.187	0.413	0.121	0.206	0.0	0.0	0.312	0.587	0.740	3.232																
STA AV	P	0.61	1.02	1.85	2.45	4.59	4.02	3.93	2.67	3.75	2.54	1.49	1.16	36.07																
	Q	0.054	0.164	0.561	0.656	1.346	0.741	0.472	0.072	0.347	0.508	0.217	0.163	5.300																
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																														
Maximum Discharge															Maximum Volume for Selected Time Interval															
		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days																
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.															
1972		11-12	0.136	11-12	0.122	11-12	0.211	11-12	0.359	11-12	0.413	11-12	0.461	11-12	0.494	11-12	0.620													
MAXIMUMS FOR PERIOD OF RECORD																														
		7-15	4.739	7-15	2.896	7-15	3.486	7-15	3.796	10- 2	4.957	10- 1	5.185	10- 1	6.083	5-30	6.143													
		1951		1951		1951		1951		1959		1959		1959		1955														

NOTES: Watershed conditions: All native grass cover, 32% in hay meadow and 68% in pasture. The hay meadow produced 1.14 tons per acre, approximately 0.5 ton per acre less than in 1971. The pasture was grazed using normal procedures for the year. For map of watershed, see Selected runoff events for small agricultural watersheds in the United States, USDA, ARS, Jan. 1960, p. 37-2-6. Precipitation data obtained from #3 recording rain gage. Precipitation and runoff records began July 1951. STA AV based on 22 yr (1951-72) record period. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1972	DAILY PRECIPITATION (inches)												STILLWATER, OKLAHOMA WATERSHED W-3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	0.65	0.0	1.33	0.0	0.04	0.0	0.0	0.0	0.0	0.0
2	0.0	0.05	0.0	0.0	0.0	0.0	0.32	0.0	0.07	0.0	0.0	0.09	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.11	0.0	0.0	0.0	0.0	0.0	0.54	0.25	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.30	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0
10	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.19	0.0
12	0.0	0.0	0.22	0.0	0.0	0.53	0.06	0.0	0.0	0.0	0.0	1.13	0.21	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0
14	0.0	0.0	0.0	0.02	0.0	0.07	0.0	0.0	0.64	0.0	0.0	0.0	0.05	0.0
15	0.0	0.0	0.0	1.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.11	0.0	0.29	0.0	0.0	0.0	0.0	0.48	0.0	0.0
19	0.0	0.0	0.0	1.17	0.0	2.49	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0
20	0.0	0.0	0.29	0.02	0.0	0.0	0.0	0.0	0.04	0.20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.03	2.21	0.15	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.02	0.20	0.0	0.0	0.0	0.0
23	0.0	0.0	0.15	0.0	0.0	1.25	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.72	0.0	0.0	0.19	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.55	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.74	0.0
30	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.22	0.0	1.84	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0
TOTAL	0.16	0.39	0.70	2.78	2.20	4.54	3.45	1.84	2.44	5.37	2.21	1.21	27.33	
STA AV	0.61	1.02	1.85	2.45	4.55	4.02	3.53	2.67	3.75	2.54	1.49	1.16	36.07	

NOTES: Amounts recorded at rain gage #3 used for current monthly totals and for runoff events. STA AV based on 22 yr (1951-72) record period.

1972 MEAN DAILY DISCHARGE (cfs) STILLWATER, OKLAHOMA WATERBEDD W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.065	0.0	0.0	0.0	0.331	0.0	0.013	0.0	0.0	0.0	0.165	0.056
2	0.063	0.0	0.0	0.0	0.070	0.0	0.183	0.0	0.0	0.0	0.064	0.051
3	0.056	0.0	0.0	0.0	0.053	0.0	0.060	0.0	0.0	0.0	0.019	0.037
4	0.060	0.0	0.0	0.0	0.037	0.0	0.285	0.0	0.0	0.0	0.0	0.037
5	0.067	0.0	0.0	0.0	0.015	0.0	0.062	0.0	0.0	0.0	0.0	0.024
6	0.056	0.0	0.0	0.0	0.344	0.0	0.008	0.0	0.0	0.0	0.0	0.0
7	0.056	0.0	0.0	0.0	0.121	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.056	0.0	0.0	0.0	0.088	0.0	0.080	0.0	0.0	0.0	0.0	0.0
9	0.042	0.0	0.0	0.0	0.067	0.0	0.081	0.0	0.0	0.0	0.0	0.0
10	0.037	0.0	0.0	0.0	0.065	0.0	0.025	0.0	0.0	0.0	0.0	0.0
11	0.037	0.0	0.0	0.0	0.039	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.032	0.017	0.0	0.0	0.165	0.0	0.0	0.0	0.0	0.0	0.560	0.0
13	0.010	0.033	0.0	0.0	0.095	0.0	0.0	0.0	0.0	0.0	0.653	0.045
14	0.0	0.037	0.0	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.050	0.102
15	0.0	0.032	0.0	0.026	0.036	0.0	0.0	0.0	0.0	0.0	0.063	0.102
16	0.0	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.095
17	0.002	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.042	0.093
18	0.051	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.072	0.088
19	0.037	0.0	0.0	0.252	0.0	0.023	0.0	0.0	0.0	0.0	0.151	0.057
20	0.037	0.0	0.0	0.137	0.0	0.005	0.0	0.0	0.0	0.0	0.116	0.079
21	0.037	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.0	0.017	0.165	0.072
22	0.037	0.0	0.0	0.053	0.0	0.0	0.0	0.0	0.0	0.040	0.136	0.065
23	0.032	0.0	0.0	0.026	0.0	0.087	0.0	0.0	0.0	0.0	0.095	0.065
24	0.001	0.0	0.0	0.0	0.0	0.323	0.0	0.0	0.0	0.0	0.134	0.058
25	0.0	0.0	0.0	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.216	0.056
26	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.104	0.042
27	0.0	0.0	0.0	0.056	0.0	0.0	0.0	0.0	0.0	0.0	0.078	0.037
28	0.0	0.0	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.067	0.037
29	0.0	0.0	0.0	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.065	0.070
30	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.151	0.063	0.572
31	0.0		0.0		0.0		0.0			0.599		0.081
MEAN	0.0281	0.0053	0.0	0.0241	0.0515	0.0156	0.0257	0.0	0.0	0.0389	0.1271	0.0523
INCHES	0.226	0.040	0.0	0.187	0.413	0.121	0.206	0.0	0.0	0.312	0.587	0.740
STA AV	0.054	0.164	0.561	0.656	1.346	0.741	0.472	0.072	0.347	0.508	0.217	0.163

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.258714.

STILLWATER, OKLAHOMA WATERSHED W-4

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River. Lat. 36 deg. 21 min. N.; Long. 97 deg. 04 min. W.

AREA: 206.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														STILLWATER, OKLAHOMA WATERSHED W-4											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1972	P	0.07	0.30	0.59	2.75	1.96	5.14	3.20	2.42	2.72	5.28	2.11	1.24	27.78											
	Q	0.017	0.007	0.0	0.067	0.078	0.729	0.119	0.000	0.004	0.325	0.501	0.374	2.222											
STA AV	P	0.55	0.96	1.76	2.33	4.46	3.94	3.61	2.55	3.77	2.55	1.40	1.11	25.19											
	Q	0.056	0.085	0.313	0.371	1.040	0.699	0.441	0.058	0.342	0.440	0.124	0.058	4.066											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1972		6-19	0.535	6-19	0.346	6-15	0.385	6-19	0.406	6-19	0.405	6-19	0.410	6-19	0.410	6-19	0.729								
MAXIMUMS FOR PERIOD OF RECORD																									
		4-18	2.792	4-18	1.713	4-18	2.013	10-2	2.628	10-2	4.493	10-2	4.711	10-1	5.238	9-30	6.877								
		1957		1957		1957		1959		1959		1959		1959		1959									

NOTES: Watershed conditions: All native grass cover, 17% in hay meadow and 83% in two pastures. The vegetative cover in the pastures has not improved since the drought conditions of 1970 due to overgrazing. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964; USDA Misc. Pub. 1194, p. 37.3-6 (revised). Precipitation and runoff records began July 1951. STA AV based on 22 yr (1951-72) record period. STA AV precipitation data from R-4 recording rain gage record through 1964 combined with R-2 for 1965 through 1972. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1972 DAILY PRECIPITATION (inches)													STILLWATER, OKLAHOMA WATERSHED W-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.01	0.0	0.0	0.0	0.64	0.0	1.13	0.0	0.08	0.0	0.12	0.0													
2	0.0	0.04	0.0	0.0	0.0	0.0	0.15	0.0	0.15	0.0	0.0	0.0													
3	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0													
4	0.03	0.0	0.0	0.0	0.0	0.0	0.36	0.41	0.0	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.05	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.33	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0													
10	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
11	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0													
12	0.0	0.0	0.14	0.0	0.51	0.01	0.13	0.0	0.0	0.0	1.10	0.21													
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0													
14	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.47	0.0	0.0	0.01													
15	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.15	0.0	0.43	0.0	0.0	0.0	0.46	0.0													
19	0.0	0.0	0.0	1.14	0.0	2.62	0.0	0.0	0.0	0.0	0.02	0.0													
20	0.0	0.0	0.24	0.12	0.0	0.0	0.0	0.0	0.33	0.21	0.0	0.0													
21	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	2.15	0.12	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.03	0.24	0.0	0.0													
23	0.0	0.0	0.21	0.0	0.0	1.27	0.0	0.35	0.0	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.85	0.0	0.90	0.0	0.0	0.22	0.0	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
26	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
27	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.0	0.09	0.0	0.38	0.0	0.61	0.0	0.0	0.0													
29	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.74													
30	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.23	0.0	1.70	0.0	0.0													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0													
Total	0.07	0.30	0.59	2.75	1.96	5.14	3.20	2.42	2.72	5.28	2.11	1.24													
STA AV	0.55	0.96	1.76	2.33	4.46	3.94	3.61	2.55	3.77	2.55	1.40	1.11													

NOTES: Amounts recorded at rain gage R-2 used for current monthly totals and for runoff events. STA AV based on 22 yr (1951-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)													STILLWATER, OKLAHOMA WATERSHED #4			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.021	0.0	0.0	0.0	0.387	0.0	0.050	0.0	0.0	0.0	0.207	0.0				
2	0.021	0.0	0.0	0.0	0.0	0.0	0.752	0.0	0.0	0.0	0.012	0.0				
3	0.017	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.071	0.0	0.0	0.0	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
6	0.0	0.0	0.0	0.0	0.0	0.172	0.0	0.0	0.0	0.0	0.0	0.0				
7	0.002	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.082	0.0	0.0	0.0	0.0				
9	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.029	0.0	0.0				
10	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0				
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0	0.0	1.488				
13	0.0	0.027	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.583				
14	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.092				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.038				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.058	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.110			0.414	
19	0.0	0.0	0.0	0.0	0.480	0.0	3.456	0.0	0.0	0.0	0.0	0.326			0.287	
20	0.0	0.0	0.0	0.0	0.072	0.0	0.053	0.0	0.0	0.0	0.0	0.137			0.156	
21	0.0	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.306	0.200			0.109	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.149	0.125	0.061				
23	0.0	0.0	0.0	0.0	0.0	0.0	1.194	0.0	0.0	0.0	0.051	0.060				
24	0.0	0.0	0.0	0.0	0.0	0.0	1.536	0.0	0.001	0.0	0.0	0.158			0.045	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.292			0.010	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.079			0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.043			0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.019			0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			1.268	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.686	0.0			0.446	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.475	0.126				
MEAN	0.0046	0.0021	0.0	0.0193	0.0218	0.2103	0.0333	0.0	0.0042	0.0508	0.1487	0.1045				
INCHES	0.017	0.007	0.0	0.067	0.078	0.729	0.119	0.000	0.004	0.325	0.501	0.374				
STA AV	0.056	0.085	0.313	0.371	1.040	0.699	0.441	0.058	0.342	0.440	0.124	0.058				

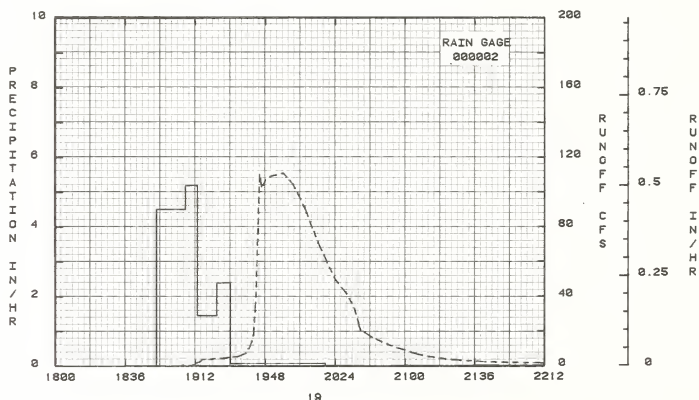
NOTES: To convert mean daily discharge in CFS to IN/DAI, multiply by 0.115542.

1972	SELECTED RUMFF EVENT						STILLWATER, OKLAHOMA WATERSHED N-4						
ANTECEDENT CONDITIONS			RAINFALL				RUMFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF JUNE 19 - 20, 1972													
RG 000002													
6-19	0.40	0.0	6-19	1852	0.0	0.0	6-19	1903	0.0	0.0			
				1907	4.5200	1.13		1904	0.0	0.0			
				1913	5.1997	1.65		1905	0.442	0.0			
				1923	1.4400	1.89		1906	0.282	0.0			
				1930	2.4000	2.17		1910	0.282	0.0001			
WATERSHED CONDITIONS:													
100% OF AREA IN NATIVE													
grass; 17.3% used as hay													
meadow in good condition,													
and 82.7% in pasture in													
fair condition.													
			2019	0.0612	2.22		1911	0.839	0.0001				
							1912	1.535	0.0002				
							1913	1.934	0.0003				
							1914	2.387	0.0005				
							1915	3.060	0.0008				
							1916	3.874	0.0011				
							1917	3.839	0.0014				
							1919	3.718	0.0020				
							1922	4.412	0.0029				
							1929	4.900	0.0055				
							1934	5.458	0.0077				
							1938	7.403	0.0098				
							1940	11.406	0.0112				
							1941	14.513	0.0122				
							1942	19.185	0.0138				
							1943	36.681	0.0159				
							1944	72.954	0.0200				
							1945	110.331	0.0286				
							1946	102.994	0.0366				
							1947	103.941	0.0444				
							1948	107.313	0.0523				
							1951	109.361	0.0788				
							1957	111.137	0.1327				
							2002	104.567	0.1753				
							2005	98.333	0.2001				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.004814.

1972 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED N-4							
ANTECEDENT CONDITIONS			RAINFALL			RUNCFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 19 - 20, 1972 (CONTINUED)										
							6-19	2008	91.453	0.2233
								2010	85.970	0.2366
								2012	75.927	0.2506
								2016	65.043	0.2744
								2020	55.197	0.2949
								2024	49.673	0.3123
								2030	41.307	0.3345
								2034	32.553	0.3463
								2036	24.554	0.3506
								2037	20.375	0.3523
								2039	19.226	0.3557
								2043	16.241	0.3614
								2048	13.649	0.3673
								2053	11.285	0.3725
								2100	8.944	0.3782
								2104	7.251	0.3808
								2109	5.856	0.3834
								2115	4.738	0.3860
								2121	3.726	0.3880
								2129	2.975	0.3901
								2139	2.297	0.3922
								2153	1.732	0.3945
								2208	1.404	0.3964
								2229	1.107	0.3985
								2252	0.893	0.4003
								2315	0.694	0.4018
								2336	0.559	0.4028
								2400	0.461	0.4038
							6-20	23	0.382	0.4046
								54	0.303	0.4055
								136	0.243	0.4064
								209	0.204	0.4070
								248	0.162	0.4076
								338	0.102	0.4081
								444	0.081	0.4086
								605	0.039	0.4090
								732	0.042	0.4093
								1130	0.021	0.4099
								1326	0.0	0.4100

NOTES: To convert runoff in CFS to IS/HR, multiply by 0.004614.



EVENT OF JUNE 19 - 20, 1972
STILLWATER, OKLAHOMA WATERSHED N-4

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin. Lat. 31 deg. 31 min. 11 Sec. N.; Long. 96 deg. 53 min. 34 sec. W.

AREA: 579.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													EISEL (WACO), TEXAS WATERSHED C	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1972	P 2.74	1.00	0.90	2.16	2.08	1.80	2.46	3.43	5.65	5.38	2.51	1.83	31.98	
	Q 1.093	0.038	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.884	0.105	0.457	2.612	
STA AV	P 1.88	2.73	2.13	3.79	3.88	3.32	1.84	2.56	3.24	3.04	3.10	2.43	33.95	
	Q 0.449	0.611	0.602	0.844	0.862	0.586	0.228	0.171	0.333	0.127	0.523	0.606	6.243	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
Maximum Discharge			Maximum Volume for Selected Time Interval											
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	6 Days						
Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	10-26	0.232	10-26	0.222	10-26	0.392	10-26	0.705	10-26	0.792	10-26	0.821	10-26	0.836
	3-29	1.580	3-29	1.500	3-29	2.520	3-29	3.550	3-29	3.800	3-29	4.480	4-15	8.760
	1965		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: 90% pasture; 5% row grain sorghum; 2% gravel and paved roads; 3% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42-46. Precipitation and runoff records began Feb. 1936; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges 5, 14 and 20. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY AIR TEMPERATURE (degrees F)													EISEL (WACO), TEXAS WATERSHED C	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	max	min	max	min	max	min	max	min	max	min	max	min		
1	55	48	53	39	54	40	57	25	27	15	35	17	48	26
2	72	39	51	29	48	18	35	18	47	23	61	37	73	55
3	79	35	62	38	65	47	60	29	34	25	35	31	44	31
4	59	40	73	29	45	29	54	30	61	36	62	39	42	32
5	72	40	59	36	63	39	73	53	78	54	75	59	76	58
6	69	55	77	32	58	34	69	43	71	41	65	43	70	53
7	79	61	78	62	80	52	78	49	79	49	85	56	73	47
8	82	44	72	53	79	62	85	59	79	45	60	44	13	55
9	79	59	83	69	90	52	77	45	73	48	82	65	85	69
10	84	62	84	67	90	70	89	62	74	54	81	52	83	57
11	79	63	83	67	84	63	78	56	81	58	80	58	77	61
12	75	60	80	62	82	59	81	60	84	62	80	58	82	63
13	84	68	86	66	90	69	90	68	91	67	89	68	85	68
14	89	65	90	67	92	66	93	70	91	70	87	71	86	67
15	85	70	85	70	91	71	94	72	97	74	95	71	98	74
16	95	76	96	69	92	66	94	75	94	75	92	76	80	66
17	88	68	88	70	89	71	90	72	92	73	93	72	93	71
18	90	69	90	72	91	71	93	73	94	73	96	75	95	77
19	88	73	93	70	96	70	98	70	98	73	94	74	95	65
20	92	71	90	74	93	72	90	71	92	72	95	74	97	74
21	95	75	96	72	92	70	91	69	91	72	88	73	89	70
22	95	72	94	74	96	72	95	72	91	72	94	73	92	70
23	92	73	86	66	91	63	85	64	81	70	87	72	91	71
24	78	55	81	56	85	60	87	67	85	52	76	58	64	60
25	90	64	87	65	90	65	92	68	90	46	53	47	65	50
26	52	46	56	48	64	50	73	64	83	54	62	44	54	42
27	66	45	67	50	49	48	67	48	65	50	74	52	67	41
28	45	37	42	37	41	32	47	34	45	36	44	38	56	32
29	63	34	73	45	77	31	43	31	62	23	34	22	39	24
30	42	30			43	19	46	24	49	27	53	38	65	50
31	61	36			63	39			71	51			98	85
AV.	77	56	76	55	76	54	76	53	73	54	73	56	76	57
MAX	66	3	65	7	64	8	64	5	64	6	66	7	65	3
STA AV	58	38	62	40	69	47	77	56	83	63	89	70	93	72

NOTES: Temperature data taken daily with maximum and minimum thermometers. Readings were taken at 0800 of the day shown. STA AV based on 34 yr (1939-1972) period.

1972 DAILY PRECIPITATION (inches)												RIESEL (WACC), TEXAS WATFESSEE C											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.29	0.17	0.31	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.49	0.0											
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
3	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
4	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.14	0.0	0.0	0.0	0.0											
5	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
6	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.17	0.0											
7	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
9	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0											
10	0.0	0.0	0.0	0.0	0.0	0.05	0.00	1.85	0.0	0.0	0.0	0.0											
11	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.495											
12	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.11	0.01	0.0	0.63	0.0											
13	0.0	0.0	0.24	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.05	0.0											
14	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	1.16											
15	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.04	0.0	0.0	0.0											
16	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	2.04	0.0	0.0	0.0											
17	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.83	0.0	0.01	0.0											
18	0.0	0.0	0.0	0.0	0.08	0.0	0.01	0.0	0.0	0.0	0.24	0.058											
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
20	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0											
21	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.34	0.19	0.0											
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	1.59	0.0	0.0											
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.10	0.0	0.0	0.0											
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.51	0.0	0.0											
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
26	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.85	2.39	0.0	0.0	0.0											
27	0.10	0.0	0.33	1.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
28	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
29	0.28	0.67	0.0	0.0	0.0	0.06	0.24	0.0	1.09	0.32	0.03	0.05											
30	0.0	0.0	0.0	0.0	0.0	1.09	0.0	0.0	0.0	0.08	0.0	0.0											
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.08	0.0	0.0											
TOTAL	2.74	1.00	0.90	2.16	2.08	1.60	2.46	3.43	5.65	5.38	2.51	1.83											
STA AV	1.88	2.73	2.13	3.79	3.86	3.32	1.84	2.56	3.24	3.04	3.10	2.43											

NOTES: Precipitation values are Thiessen weighted average of rain gages 5, 14, and 20. Records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 27 yr period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs)												RIESEL (WACC), TEXAS WATFESSEE C											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	1.772	0.272	0.355	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.134	0.0											
2	1.057	0.193	0.386	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.202	0.0											
3	5.919	0.055	0.060	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.035	0.0											
4	1.500	0.027	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0											
5	0.214	0.019	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0											
6	0.114	0.031	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0											
7	0.066	0.016	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0											
8	0.043	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
9	0.042	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
10	0.037	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
11	0.022	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002											
12	0.015	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.006											
13	0.010	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.885	0.003											
14	0.004	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.141	5.509											
15	0.002	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.030	1.268											
16	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.162											
17	0.002	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.054											
18	0.004	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.028											
19	0.003	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.021											
20	0.004	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.015											
21	0.004	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.008											
22	0.004	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.732	0.001	0.008											
23	0.003	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.127	0.0	0.003											
24	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.009	0.001											
25	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.046	0.001											
26	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.194	0.037	0.001											
27	0.004	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.575	0.012	0.0											
28	1.755	0.001	0.0	0.0	0.0	0.0	0.0	0.261	0.0	0.003	0.001	0.001											
29	12.440	0.245	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.143	0.001	0.001											
30	1.250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.054	0.001	0.001											
31	0.248	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.022	0.0	0.0	0.0											
MEAN	0.8578	0.0320	0.0269	0.0	0.0	0.0	0.0	0.0	0.0	0.6939	0.0851	0.3584											
INCHES	1.093	0.038	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.884	0.105	0.457											
STA AV	0.449	0.611	0.602	0.944	0.862	0.566	0.228	0.171	0.333	0.527	0.523	0.606											

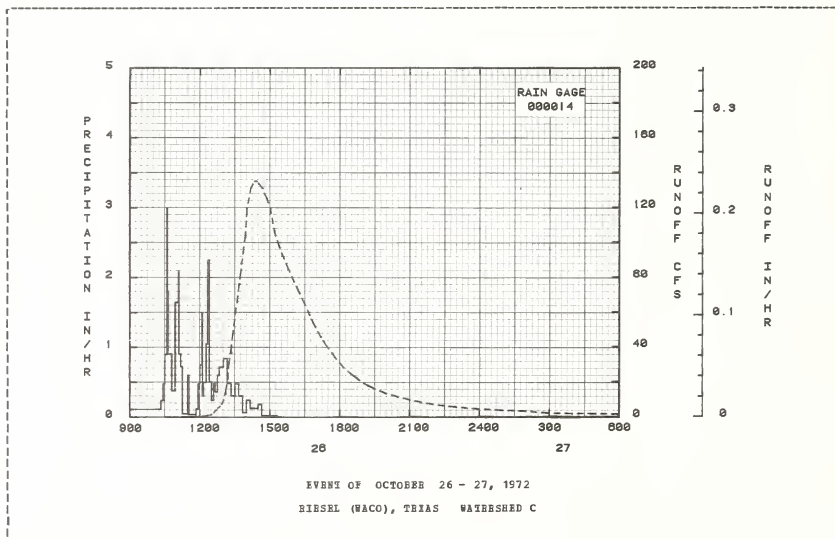
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.04108. Records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 27 yr period.

1972	SELECTED RUNOFF EVENT				BISEL (WACC), TEXAS							WATERSHED C	
PRECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)			
EVENT OF OCTOBER 26 - 27, 1972													
SG 000014			SG 000014										
10-26	0.0	0.0	10-26	900	0.0	0.0	10-26	1031	0.0	0.0			
				1020	0.1125	0.15		1036	0.0	0.0			
				1025	0.2399	0.17		1041	0.0	0.0			
				1030	0.4601	0.21		1046	0.0	0.0			
				1034	0.9000	0.27		1051	0.001	0.0			
WATERSHED CONDITIONS:													
90% pasture, dormant, all			1036	2.9998	0.37		1056		0.003	0.0			
classes; 5% row grain sorghum;			1038	1.8004	0.43		1101		0.006	0.0			
2% gravel and paved roads; 3%			1040	0.9000	0.46		1106		0.013	0.0			
other. Approx. 90% of other			1044	0.9000	0.52		1111		0.023	0.0			
is Johnsongrass and weeds in			1048	0.9000	0.58		1115		0.030	0.0			
conservation reserve, neither													
tilled nor grazed.			1056	0.3750	0.63		1118		0.044	0.0			
			1100	1.6500	0.74		1121		0.057	0.0			
			1104	1.6500	0.85		1126		0.069	0.0			
			1106	2.0558	0.52		1131		0.072	0.0			
			1110	0.9000	0.98		1136		0.082	0.0			
			1115	0.7201	1.04		1141		0.129	0.0			
			1128	0.0461	1.05		1146		0.192	0.0			
			1132	0.5999	1.09		1151		0.262	0.0			
			1150	0.0334	1.10		1156		0.313	0.0			
			1155	0.1199	1.11		1201		0.360	0.0			
			1200	0.4801	1.15		1206		0.410	0.0001			
			1204	0.7498	1.20		1211		0.509	0.0002			
			1206	1.5001	1.25		1216		0.669	0.0003			
			1210	0.3001	1.27		1221		0.687	0.0004			
			1216	0.5000	1.32		1226		1.152	0.0005			
			1220	1.0499	1.39		1231		1.574	0.0007			
			1224	2.2501	1.54		1236		2.603	0.0010			
			1230	0.4999	1.59		1241		3.955	0.0015			
			1235	0.2401	1.61		1246		4.668	0.0021			
			1240	0.4801	1.65		1251		6.088	0.0029			
			1245	0.3600	1.68		1256		7.314	0.0038			
			1250	0.5559	1.73		1301		5.726	0.0051			
			1300	0.7201	1.85		1305		13.143	0.0064			
			1310	0.8400	1.95		1309		18.371	0.0082			
			1320	0.4800	2.07		1311		22.257	0.0093			
			1330	0.2999	2.12		1315		30.741	0.0125			
			1340	0.4800	2.20		1319		37.008	0.0164			
			1350	0.3000	2.25		1321		41.516	0.0185			
			1400	0.0600	2.26		1326		45.700	0.0249			
			1410	0.2401	2.30		1331		55.560	0.0329			
			1420	0.1200	2.32		1336		66.336	0.0417			
			1430	0.1199	2.34		1341		76.391	0.0517			
			1440	0.1800	2.37		1346		84.790	0.0636			
			1520	0.0150	2.38		1351		94.478	0.0762			
							1356		103.135	0.0901			
							1401		115.726	0.1065			
							1411		131.448	0.1418			
							1416		133.607	0.1613			
							1421		135.306	0.1802			
							1426		135.306	0.1992			
							1431		134.091	0.2190			
							1441		130.972	0.2562			
							1451		125.595	0.2931			
							1501		119.726	0.3284			
							1511		106.656	0.3602			
							1521		55.535	0.3899			
							1531		53.397	0.4177			
							1551		82.945	0.4678			
							1611		73.263	0.5122			
							1631		63.869	0.5517			
							1651		53.961	0.5852			
							1711		45.656	0.6135			
							1731		39.053	0.6379			
							1751		33.016	0.6584			
							1811		28.017	0.6758			
							1831		24.161	0.6508			
							1851		20.866	0.7036			
							1911		16.058	0.7187			
							1931		15.941	0.7285			
							2001		13.175	0.7370			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001713.

1972 SELECTED BUNCFP EVENT				BIESSEL (WACO), TEXAS				WATERSHED C			
ANTECEDENT CONDITIONS				RAINFALL				BUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)											
				10-26				2031	11.227	0.7475	
								2101	5.528	0.7564	
								2131	8.127	0.7640	
								2201	6.952	0.7705	
								2301	5.324	0.7810	
				10-27				2400	4.254	0.7891	
								100	3.563	0.7958	
								200	2.879	0.8013	
								300	1.870	0.8054	
								400	1.607	0.8084	
								500	1.366	0.8109	
								600	1.179	0.8131	
								700	1.002	0.8150	
								800	0.861	0.8166	
								900	0.751	0.8180	
								1000	0.628	0.8192	
								1200	0.601	0.8213	
								1300	0.537	0.8223	
								1400	0.506	0.8232	
								1600	0.448	0.8248	
								1800	0.362	0.8262	
								2000	0.302	0.8273	
								2200	0.262	0.8283	
								2230	0.262	0.8285	
								2300	0.273	0.8287	
								2400	0.314	0.8292	

NOTES: To convert runoff in CFS to I8/88, multiply by 0.001713.



RIESEL (WACO), TEXAS WATERSHED D

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin. Lat. 31 deg. 30 min. 38 sec. N.; Long. 96 deg. 53 min. 22 sec. W.

AREA: 1110.00 acres 1.73 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)															RIESEL (WACO), TEXAS										WATERSHED D		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1972	P	2.81	1.03	0.78	2.14	2.01	2.51	3.54	5.40	5.33	2.45	1.02	31.03														
	Q	0.969	0.024	0.018	0.0	0.0	0.001	0.027	0.008	0.116	0.957	0.091	0.477	2.684													
STA AV	P	1.96	2.72	2.20	3.78	3.80	3.38	1.86	2.45	3.17	2.91	3.01	2.43	33.67													
	Q	0.474	0.596	0.630	0.987	0.956	0.593	0.294	0.189	0.323	0.335	0.510	0.551	6.429													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge				Maximum Volume for Selected Time Interval																					
		Date	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days																	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1972		10-26	0.229	10-26	0.221	10-26	0.409	10-26	0.757	10-26	0.864	10-26	0.898	10-26	0.909	10-22	0.953										
MAXIMUMS FOR PERIOD OF RECORD																											
		3-29	2.110	3-29	1.930	3-29	3.150	3-29	4.550	3-29	4.800	3-29	5.630	3-25	5.690	4-19	9.660										
		1965		1965		1965		1965		1965		1965		1965		1957											

NOTES: Watershed conditions: 75% pasture; 4% cotton; 8% row grain sorghum; 2% gravel and paved roads; 7% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42-46. Precipitation and runoff records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20 and 26A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY PRECIPITATION (inches)		RIESEL (WACO), TEXAS WATERSHED E											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.27	0.17	0.268	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.21	0.13E	0.0	0.0	0.0	0.0
5	0.0	0.088	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.17	0.0
7	0.0	0.0	0.0	0.0	0.0	0.068	0.0	0.0	0.0	0.0	0.0	0.0	0.07E
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.02E	1.81	0.0	0.0	0.0	0.0
11	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.46E
12	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.03E	0.15E	0.02E	0.0	0.82	0.0
13	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.01E	0.0	0.0	0.0	0.04	0.0
14	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	1.16
15	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.09	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	2.15	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.63	0.0	0.01E	0.0
18	0.0	0.0	0.0	0.0	0.07E	0.0	0.01E	0.0	0.0	0.0	0.0	0.24	0.05E
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0
20	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0
21	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.32	0.18	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	1.95	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.64	0.08E	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.50	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.66	2.38	0.0	0.0
27	0.10E	0.0	0.30	1.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	1.18E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.54	0.69	0.0	0.0	0.0	0.07E	0.25	0.0	1.09	0.34	0.02E	0.05E	0.0
30	0.0	0.0	0.0	0.0	0.0	1.38	0.0	0.0	0.0	0.06E	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0
TOTAL		2.81	1.03	0.78	2.14	2.01	2.51	3.54	5.40	5.33	2.45	1.02	31.03
STA AV		1.96	2.72	2.20	3.78	3.80	3.38	1.86	2.45	3.17	2.91	3.01	2.43

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, and 26A. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 28 yr period. Estimate codes may indicate that non-significant event totals are included.

1972						MEAN DAILY DISCHARGE (cfs)						RIESEL (WACO), TEXAS						WATERSHED D								
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	1.668	0.417	0.247	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.183	0.0	7	0.093	0.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	1.115	0.262	0.359	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.300	0.0	8	0.061	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.893	0.059	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.068	0.0	9	0.045	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	2.278	0.026	0.016	0.0	0.0	0.0	1.263	0.0	0.0	0.0	0.019	0.0	10	0.050	0.007	0.0	0.0	0.0	0.0	0.343	0.0	0.0	0.0	0.0	0.0	
5	0.261	0.019	0.003	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.005	0.0	11	0.028	0.008	0.0	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	
6	0.151	0.049	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	12	0.015	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.0	
7	0.093	0.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	0.009	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.117	0.0	0.0	
8	0.061	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.003	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.218	15.430	0.0	
9	0.045	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	2.316	0.0	
10	0.050	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	0.0	0.001	0.0	0.0	0.0	0.0	0.0	3.557	0.0	0.017	0.244	0.0	
11	0.028	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.023	0.0	0.0	17	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.147	0.0	0.009	0.007	0.0	
12	0.015	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.012	0.050	0.0	
13	0.009	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.040	0.0	
14	0.003	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.030	0.0	
15	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	2.316	21	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.015	
16	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.244	22	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.480	0.0	0.007	
17	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.007	23	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.201	0.0	0.004	
18	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.013	0.045	0.004		
19	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.040	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.081	0.003	
20	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.030	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.500	0.057	0.0	0.0	
21	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.015	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.736	0.025	0.0	0.0	
22	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	28	2.947	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.293	0.008	0.0	
23	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	29	24.200	0.194	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.045	30	1.962	0.0	0.0	0.0	0.0	0.058	0.0	0.0	0.0	0.070	0.105	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.081	31	0.352	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.048	0.0	0.0	0.0
MEAN	1.4571	0.0366	0.0218	0.0	0.0	0.0019	0.0411	0.0122	0.1804	1.4390	0.1420	0.7171	INCHES	0.365	0.024	0.014	0.0	0.0	0.001	0.027	0.008	0.116	0.557	0.091	0.477	0.0
STA AV	0.474	0.596	0.630	0.987	0.956	0.593	0.244	0.189	0.323	0.335	0.510	0.591														

NOTES: To convert mean daily discharge in CFS to I#/DAY, multiply by 0.021443. Records Regat Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 28 yr period.

1972 SELECTED RUNOFF EVENT						RIESEL (WACO), TEXAS WATERSHED I					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF OCTOBER 26 - 27, 1972											
EG 000014											
0.0											
10-26		0.0	10-26	900	0.0	0.0	10-26	1020	0.0	0.0	
				1020	0.1125	0.15		1027	0.0	0.0	
				1025	0.2399	0.17		1031	0.0	0.0	
				1030	0.4801	0.21		1033	0.001	0.0	
				1034	0.5000	0.27		1035	0.006	0.0	
WATERSHED CONDITIONS:											
79% pasture, dormant; all											
classes; 4% cotton; 6% row											
cotton; 2% gravel and											
paved roads; 7% other.											
Approx. 90% of other is John-											
songrass and weeds in conserva-											
tion reserve, neither til-											
led nor grazed.											
			1036	2.5958	0.37		1037	0.024	0.0		
			1038	1.6004	0.43		1039	0.044	0.0		
			1040	0.9000	0.46		1041	0.064	0.0		
			1044	0.9000	0.52		1043	0.082	0.0		
			1048	0.9000	0.58		1045	0.100	0.0		
			1056	0.3750	0.63		1049	0.110	0.0		
			1100	1.6500	0.74		1057	0.106	0.0		
			1104	1.6500	0.85		1101	0.145	0.0		
			1106	2.0958	0.92		1103	0.154	0.0		
			1110	0.5000	0.98		1105	0.280	0.0		
			1115	0.7201	1.04		1107	0.370	0.0		
			1128	0.0461	1.05		1109	0.436	0.0		
			1132	0.5599	1.09		1111	0.534	0.0		
			1150	0.0334	1.10		1113	0.669	0.0		
			1155	0.1199	1.11		1115	0.883	0.0		
			1200	0.4601	1.15		1117	1.292	0.0		
			1204	1.7498	1.20		1119	1.773	0.0		
			1206	1.5001	1.25		1121	2.113	0.0001		
			1210	0.3001	1.27		1123	2.640	0.0002		
			1216	0.5000	1.32		1125	3.429	0.0003		
			1220	1.0499	1.39		1127	4.193	0.0004		
			1224	2.2501	1.54		1129	5.042	0.0005		
			1230	0.4599	1.59		1131	5.754	0.0007		
			1235	0.2401	1.61		1135	6.824	0.0011		
			1240	0.4601	1.65		1139	8.010	0.0015		

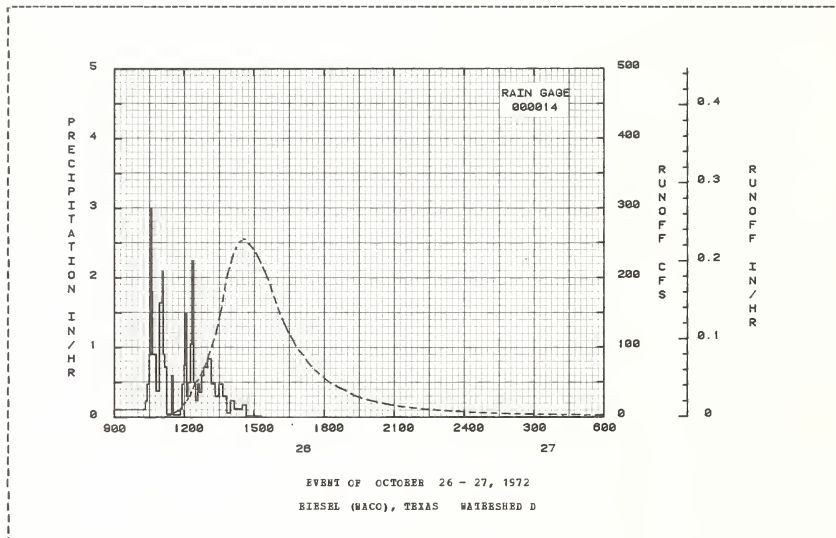
NOTES: To convert runoff in CFS to I#/HR, multiply by 0.000893.

1972 SELECTED RUNOFF EVENT				AETHEL (WACC), TEXAS				WATSEHEAD I			
Antecedent Date No-Day	Conditions Rainfall (inches)	Runoff (inches)	Date No-Day	Rainfall Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Runoff Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)											
10-26			1245		0.3600	1.68	10-26	1143	9.148	0.0020	
			1250		0.5999	1.73		1147	10.130	0.0026	
			1300		0.7281	1.65		1151	12.327	0.0033	
			1310		0.8400	1.99		1155	15.063	0.0041	
			1320		0.4800	2.07		1159	18.603	0.0051	
			1330		0.2599	2.12		1203	21.351	0.0063	
			1340		0.4800	2.20		1207	24.364	0.0077	
			1350		0.3000	2.25		1211	27.508	0.0092	
			1400		0.0600	2.26		1215	30.670	0.0110	
			1410		0.2401	2.30		1219	36.420	0.0130	
			1420		0.1200	2.32		1223	42.500	0.0153	
			1430		0.1199	2.34		1227	46.000	0.0180	
			1440		0.1000	2.37		1232	51.500	0.0216	
			1520		0.0150	2.38		1237	54.500	0.0255	
						1242	60.500	0.0299			
						1247	66.000	0.0345			
						1252	72.000	0.0396			
						1257	78.000	0.0454			
						1302	87.500	0.0515			
						1307	94.500	0.0582			
						1312	103.000	0.0658			
						1317	112.500	0.0737			
						1322	120.500	0.0822			
						1327	133.500	0.0920			
						1332	147.000	0.1023			
						1337	159.000	0.1135			
						1342	176.000	0.1264			
						1347	192.000	0.1399			
						1352	205.000	0.1544			
						1357	215.000	0.1705			
						1402	226.000	0.1867			
						1407	235.000	0.2036			
						1412	242.000	0.2219			
						1417	247.000	0.2398			
						1422	252.000	0.2581			
						1427	253.000	0.2775			
						1432	256.000	0.2962			
						1437	255.000	0.3145			
						1447	246.000	0.3526			
						1457	242.000	0.3894			
						1507	233.000	0.4242			
						1517	222.000	0.4583			
						1527	210.000	0.4907			
						1537	197.000	0.5205			
						1547	180.000	0.5488			
						1557	164.000	0.5746			
						1607	148.000	0.5975			
						1617	135.000	0.6187			
						1627	122.500	0.6380			
						1637	113.000	0.6553			
						1647	102.500	0.6715			
						1657	94.000	0.6862			
						1707	88.500	0.6996			
						1717	79.000	0.7122			
						1727	73.000	0.7236			
						1737	67.000	0.7339			
						1747	62.000	0.7436			
						1757	57.500	0.7526			
						1817	46.500	0.7683			
						1837	42.500	0.7818			
						1857	37.500	0.7938			
						1917	30.807	0.8039			
						1937	27.130	0.8125			
						1957	24.015	0.8202			
						2017	21.339	0.8265			
						2037	19.032	0.8329			
						2057	16.742	0.8383			
						2127	14.272	0.8452			
						2157	12.292	0.8511			
						2227	10.711	0.8562			
						2257	9.287	0.8607			
						2327	8.213	0.8646			
						2400	7.211	0.8684			
						10-27	27	6.345	0.8711		
							57	5.656	0.8738		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000693.

1972	SELECTED RUNOFF EVENT					EISEL (WACO), TEXAS		WATERSHED I		
ANTECEDENT CONDITIONS			RAINFALL			RUBOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)										
				10-27			157		4.562	0.8784
							257		3.747	0.8821
							357		3.157	0.8852
							457		2.695	0.8878
							557		2.315	0.8900
							657		2.013	0.8919
							757		1.814	0.8936
							857		1.585	0.8951
							957		1.351	0.8964
							1111		1.198	0.8978
							1211		1.020	0.8988
							1311		0.988	0.8997
							1411		0.867	0.9005
							1611		0.705	0.9019
							1811		0.616	0.9031
							2011		0.486	0.9041
							2211		0.429	0.9049
							2400		0.361	0.9055

NOTES: To convert runoff in CFS to I_R/H_R, multiply by 0.000853.



LOCATION: McLennan and Falls Counties, Texas; 16 mi. S.W. of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 59 sec. N.; Long. 96 deg. 52 min. 06 sec. W.

AREA: 4380.00 acres 6.84 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)												RIESEL (WACO), TEXAS		WATERSHED G	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1972	P 2.70	1.04	0.53	1.96	2.37	2.96	2.36	4.46	4.47	5.34	2.35	1.86	32.38		
	Q 1.079	0.073	0.017	0.0	0.002	0.026	0.142	0.041	0.094	0.727	0.104	0.463	2.770		
STA AV	P 2.12	2.83	2.15	3.51	3.38	4.06	2.14	2.84	3.35	3.09	3.06	2.73	35.25		
	Q 0.676	0.741	0.688	0.665	0.667	0.884	0.283	0.169	0.309	0.223	0.571	0.681	6.556		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		2 Days		8 Days		
	Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1972	10-26	0.088	10-26	0.087	10-26	0.171	10-26	0.425	10-26	0.591	10-26	0.650	10-26	0.663	0.719
MAXIMUMS FOR PERIOD OF RECORD															
	3-29	0.950	3-29	0.510	3-29	1.720	3-29	3.390	3-29	3.940	3-29	4.030	3-25	4.740	11-22 4.820
	1965		1965		1965		1965		1965		1965		1940		

NOTES: Watershed conditions: 49% pasture; 2% tilled, but not planted; 5% cotton; 3% corn; 5% fall planted small grain, largely oats; 10% sorghum; 2% gravel and paved roads; 20% other. Approximately 50% of other is Johnsongrass and weeds in reclamation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42-4-6. Precipitation and runoff records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gauges 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS		WATERSHED G	
	May	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.24	0.14E	0.13E	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0		
2	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.12	0.13E	0.0	0.0	0.0	0.0		
5	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.14E	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.02E	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.39E	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.01E	1.75	0.0	0.0	0.0	0.0		
11	0.0	0.11E	0.0	0.0	0.00E	0.0	0.0	0.17E	0.0	0.0	0.0	0.0	0.49E		
12	0.0	0.0	0.0	0.0	0.20	0.0	0.06E	0.18E	0.05E	0.0	0.79	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.37	0.0	0.01E	0.0	0.0	0.0	0.0	0.04	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.19E	0.0	0.0	0.0	0.0	0.02	0.0	1.18		
15	0.0	0.0	0.0	0.0	0.0	0.22E	0.0	0.0	0.0	0.08	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	2.12	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.44	0.0	0.03E	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.36E	0.0	0.03E	0.0	0.0	0.0	0.27	0.05E	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0		
20	0.0	0.0	0.13E	0.0	0.0	0.01E	0.0	0.0	0.0	0.10E	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.00E	0.0	0.0	0.32	0.18	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.79	0.0	1.53	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	1.06	0.10E	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.49	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.27E	2.23	0.0	0.0	0.0		
27	0.11E	0.0	0.24	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.91E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.66	0.71	0.0	0.0	0.0	0.07E	0.13E	0.0	0.75	0.43	0.02E	0.06E	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.05E	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19E	0.0	0.0	0.0		
TOTAL	2.70	1.04	0.53	1.56	2.37	2.56	2.36	4.46	4.47	5.34	2.35	1.86			
STA AV	2.12	2.83	2.15	3.51	3.38	4.06	2.14	2.84	3.35	3.09	3.06	2.73			

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 20 yr period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs)						RIESEL (WACO), TEXAS						WATERSHED G	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	11.11	3.14	1.87	0.0	0.0	0.0	0.07	0.0	0.0	0.02	1.85	0.01	
2	5.81	2.33	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.77	0.01	
3	56.65	0.68	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.70	0.02	
4	16.40	0.35	0.14	0.0	0.0	0.0	24.46	0.0	0.0	0.0	0.37	0.02	
5	2.08	0.32	0.05	0.0	0.0	0.0	1.57	0.0	0.0	0.0	0.08	0.01	
6	1.29	0.63	0.02	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.02	0.02	
7	0.77	0.36	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.01	
8	0.71	0.26	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01	
9	0.95	0.21	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.02	
10	0.75	0.18	0.00	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.00	0.02	
11	0.47	0.16	0.00	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.00	0.03	
12	0.32	0.30	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.11	
13	0.24	0.22	0.00	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.10	0.10	
14	0.14	0.16	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	62.28	
15	0.07	0.12	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	17.92	
16	0.08	0.08	0.0	0.0	0.0	0.0	0.0	0.0	9.20	0.0	0.05	1.98	
17	0.10	0.07	0.0	0.0	0.0	0.0	0.0	0.0	7.41	0.0	0.02	0.75	
18	0.11	0.04	0.0	0.0	0.18	0.0	0.0	0.0	0.11	0.0	0.08	0.43	
19	0.12	0.02	0.0	0.27	0.0	0.0	0.0	0.0	0.15	0.0	0.44	0.44	
20	0.11	0.02	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.03	0.36	
21	0.10	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.23	
22	0.08	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.42	0.03	0.13	
23	0.06	0.03	0.0	0.0	0.0	0.0	0.0	6.70	0.0	0.73	0.01	0.08	
24	0.05	0.03	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.03	0.26	0.03	
25	0.02	0.03	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	1.31	0.02	
26	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.79	0.38	0.02	
27	0.10	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.73	0.12	0.02	
28	11.36	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.04	0.02	
29	73.18	3.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.93	0.02	0.04	
30	12.53	0.0	0.0	0.0	0.0	4.78	0.0	0.0	0.64	1.65	0.01	0.04	
31	2.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.60	0.0	0.02	
MEAN	6.4062	0.4658	0.1031	0.0	0.0143	0.1592	0.8425	0.2409	0.5788	4.3174	0.6379	2.7489	
INCHES	1.079	0.073	0.017	0.0	0.002	0.026	0.142	0.041	0.094	0.727	0.104	0.463	
STA AV	0.676	0.741	0.665	0.665	0.667	0.684	0.283	0.165	0.329	0.223	0.571	0.681	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.005434. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 20 yr period.

1972 SELECTED RUNOFF EVENT						RIESEL (WACO), TEXAS						WATERSHED G	
ANTECEDENT CONDITIONS						RAINFALL						SUBCFF	
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF OCTOBER 26 - 27, 1972													
RG 000014													
10-26	0.0	0.0	10-26	210	0.0	0.0	10-26	1020	0.001	0.0			
				320	0.0257	0.03		1030	0.009	0.0			
				330	0.1200	0.05		1040	0.027	0.0			
				350	0.0300	0.06		1050	0.025	0.0			
				540	0.0	0.06		1100	0.076	0.0			
WATERSHED CONDITIONS:													
	49% pasture, dormant, all			550	0.1200	0.08		1105	0.107	0.0			
	classes; 2% tilled but not			740	0.0055	0.09		1110	1.215	0.0			
	planted; 9% cotton; 3% corn;			750	0.3000	0.14		1115	1.897	0.0			
	5% fall planted small grain;			1020	0.0040	0.15		1130	2.247	0.0001			
	mostly oats; 10% sorghum; 2%			1025	0.2359	0.17		1145	2.621	0.0002			
	gravel and paved roads; 2%			1030	0.4801	0.21		1200	4.274	0.0004			
	roads; 20% other. Approx.			1034	0.3000	0.27		1205	5.411	0.0005			
	90% of other is Johnsongrass			1036	2.9998	0.37		1210	6.865	0.0006			
	and weeds in conservation re-			1038	1.6004	0.43		1215	5.860	0.0008			
	serve, neither tilled nor			1040	0.5000	0.46		1220	13.342	0.0010			
	grazed.												
				1044	0.9000	0.52		1225	17.996	0.0013			
				1048	0.5000	0.56		1230	27.845	0.0017			
				1056	0.3750	0.63		1235	33.852	0.0023			
				1100	1.6500	0.74		1240	40.000	0.0030			
				1104	1.6500	0.85		1245	45.000	0.0039			
				1106	2.0598	0.92		1250	54.000	0.0049			
				1110	0.9000	0.98		1255	58.500	0.0059			
				1115	0.7201	1.04		1300	63.500	0.0071			
				1128	0.0461	1.05		1305	65.000	0.0083			
				1132	0.5599	1.09		1310	76.500	0.0097			
				1150	0.0334	1.10		1315	81.000	0.0112			
				1155	0.1199	1.11		1320	87.000	0.0128			
				1200	0.4801	1.15		1325	92.000	0.0145			
				1204	0.7498	1.20		1330	97.500	0.0163			
				1206	1.5001	1.25		1335	102.000	0.0182			

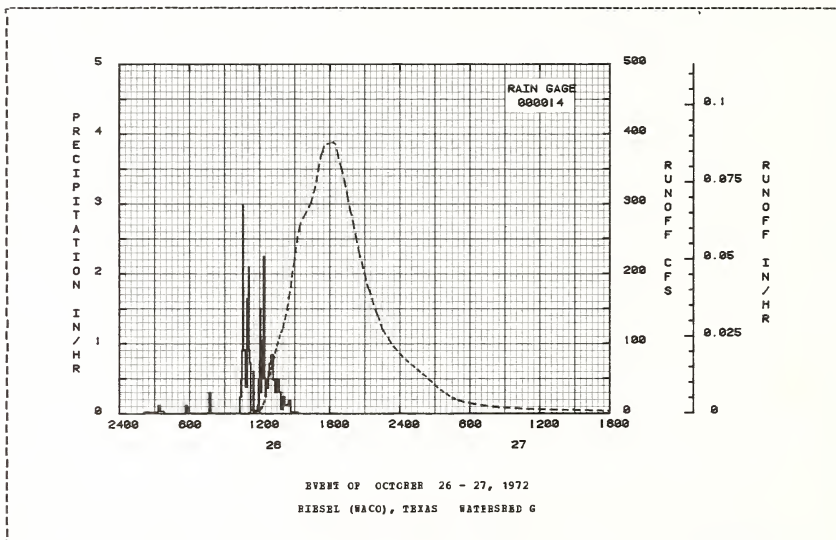
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002264.

1972 SELECTED RUNCFF EVENT				HISSEL (WACC), TEXAS				WATFESSED C			
ANTECEDENT CONDITIONS			RAINFALL			RUNCFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT 1 OF OCTOBER 26 - 27, 1972 (CONTINUED)											
10-26	1210	0.3001	1.27	10-26	1340	108.000	0.0202				
	1216	0.5000	1.32		1345	112.000	0.0223				
	1220	1.0499	1.35		1350	117.000	0.0244				
	1224	2.2501	1.54		1355	120.000	0.0266				
	1230	0.4599	1.59		1400	123.000	0.0290				
	1235	0.2401	1.61		1405	130.000	0.0313				
	1240	0.4801	1.65		1410	135.000	0.0338				
	1245	0.3600	1.68		1415	142.000	0.0365				
	1250	0.5999	1.73		1420	149.000	0.0392				
	1300	0.7201	1.85		1425	157.000	0.0420				
1310	0.8400	1.99	1430	166.000	0.0451						
1320	0.4800	2.07	1435	174.000	0.0483						
1330	0.2599	2.12	1440	181.000	0.0516						
1340	0.4800	2.20	1445	196.000	0.0553						
1350	0.3000	2.25	1500	223.000	0.0672						
1400	0.0600	2.26	1515	253.000	0.0687						
1410	0.2401	2.30	1530	273.000	0.0956						
1420	0.1200	2.32	1545	281.959	0.1113						
1430	0.1199	2.34	1600	289.000	0.1275						
1440	0.1600	2.37	1615	297.000	0.1441						
1520	0.0150	2.38	1630	309.000	0.1613						
			1645	325.000	0.1792						
			1700	350.000	0.1563						
			1715	370.000	0.2167						
			1730	382.000	0.2400						
			1745	386.000	0.2617						
			1800	387.000	0.2836						
			1815	388.000	0.3055						
			1830	385.000	0.3274						
			1845	365.000	0.3486						
			1900	350.999	0.3689						
			1915	332.000	0.3882						
			1930	311.000	0.4064						
			1945	251.000	0.4234						
			2000	272.000	0.4393						
			2015	252.000	0.4541						
			2030	231.000	0.4678						
			2045	215.000	0.4804						
			2100	199.000	0.4921						
			2115	182.000	0.5029						
			2130	171.000	0.5129						
			2145	156.000	0.5222						
			2200	145.000	0.5307						
			2215	134.000	0.5386						
			2230	121.000	0.5458						
			2245	114.000	0.5525						
			2300	108.000	0.5588						
			2315	101.000	0.5647						
			2330	55.000	0.5702						
			2345	90.000	0.5754						
			2400	85.000	0.5804						
			15	81.000	0.5851		10-27				
			30	76.500	0.5856						
			45	73.000	0.5938						
			100	69.500	0.5978						
			115	66.000	0.6016						
			130	62.500	0.6052						
			145	59.000	0.6086						
			200	55.500	0.6118						
			215	52.500	0.6149						
			230	48.000	0.6177						
			245	44.500	0.6203						
			300	40.500	0.6227						
			315	36.500	0.6249						
			330	32.886	0.6269						
			345	30.356	0.6287						
			400	27.676	0.6303						
			415	24.205	0.6318						
			430	21.847	0.6331						
			445	20.016	0.6343						
			500	18.610	0.6354						
			530	16.152	0.6374						
			600	14.173	0.6391						
			630	12.683	0.6406						
			700	11.500	0.6420						

NOTES: To convert runoff in cfs to in/hr, multiply by 0.0002264.

1972	SELECTED RUSCFF EVENT					BIESSEL (WACC), TEXAS		WATERSHED G			
ANTECEDENT CONDITIONS			RAINFALL			RUSCFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)											
								10-27	730	10.370	0.6832
									800	9.434	0.6843
									830	8.613	0.6853
									900	8.014	0.6862
									1000	6.886	0.6879
									1100	5.958	0.6884
									1200	5.375	0.6907
									1330	4.620	0.6524
									1500	4.078	0.6539
									1630	3.361	0.6552
									1800	2.864	0.6563
									1815	3.597	0.6565
									1830	3.790	0.6567
									1845	3.846	0.6569
									1900	3.846	0.6571
									1930	3.679	0.6575
									2000	3.451	0.6579
									2100	3.123	0.6586
									2200	2.730	0.6593
									2300	2.286	0.6595
									2400	1.957	0.6604

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002264.



LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 27 sec. N.; Long. 96 deg. 52 min. 48 sec. W.

AREA: 174.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RISSEL (WACO), TEXAS WATERSHED W-1	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1972 P	2.40	0.74	0.48	1.83	3.15	4.54	2.03	4.85	2.53	5.02	2.58	1.87	32.83	
Q	0.702	0.118	0.049	0.021	0.022	0.009	0.059	0.001	0.0	0.325	0.098	0.578	1.580	
STA AV P	2.19	2.69	2.50	3.92	4.17	3.28	1.76	2.20	2.58	2.75	2.58	2.65	33.66	
Q	0.492	0.601	0.715	0.980	1.150	0.583	0.121	0.097	0.129	0.182	0.415	0.545	6.010	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
Maximum Discharge			1 Hour			2 Hours			Maximum Volume for Selected time interval			1 Day		
Date	Date		Date	Vol.		Date	Vol.		Date	Vol.		Date	Vol.	
1972	12-14	0.100	12-14	0.058	12-14	0.185	12-14	0.382	12-14	0.478	12-14	0.513	12-14	0.523
														0.554
MAXIMUMS FOR PERIOD OF RECORD														
	5-1	4.510	5-1	2.990	5-1	5.570	5-1	6.910	5-1	6.920	5-1	7.050	4-30	9.200
	1944		1944		1944		1944		1944		1944		1944	11.060

NOTES: Watershed conditions: 11% oats; 85% pasture; 3% roads; and 1% other. Approximately 50% of other is Johnsongrass and weeds in conservation reserve; but neither tilled nor grazed. Watershed is in process of land use and treatment change to grass. Conversion is not complete. Area reported as 174 acres beginning 1969. Previously reported as 176 acres prior publications. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.6-6 (Revised). Precipitation and runoff records began July 1937; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gauges 75A, 89, W-2, W-2A and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

DAILY PRECIPITATION (inches)													RISSEL (WACO), TEXAS WATERSHED W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.29	0.14E	0.13E	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.26	0.0		
2	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	1.94	0.16	0.0	0.0	0.0	0.0		
5	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.11E	0.0		
7	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.00E	0.42	0.0	1.26	0.0	0.0	0.0	0.0		
11	0.0	0.12E	0.0	0.0	0.00E	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.43E	
12	0.0	0.0	0.0	0.0	0.35	0.0	0.03E	0.59	0.04E	0.0	0.71	0.0		
13	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.55	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.26		
15	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.84	0.00E	0.0	0.0	1.51	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.06E	0.0		
18	0.0	0.0	0.0	0.0	0.74	0.0	0.02E	0.0	0.0	0.0	0.26	0.06E		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0		
20	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.56	0.0	0.0	0.02E	0.0	0.0	0.31	0.18	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.80	0.0	1.64	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.14E	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.44	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	1.50	0.0	0.0		
27	0.18E	0.0	0.25	1.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.56E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.167	0.41	0.0	0.0	0.0	0.02E	0.00E	0.27	0.56	0.02E	0.05E	0.0		
30	0.0	0.0	0.0	0.0	0.0	3.4E	0.0	0.0	0.0	0.01	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0		
TOTAL	2.40	0.74	0.48	1.83	3.15	4.54	2.03	4.85	2.53	5.02	2.58	1.87		
STA AV	2.19	2.69	2.50	3.92	4.17	3.28	1.76	2.20	2.58	2.75	2.58	2.65		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted averages of rain gauges 75A, 89, W-2, W-2A, and W-5A. Records began July 1937; part-year amounts not included in averages. STA AV based on 35 yr period. Estimate codes may indicate that non-significant event totals are included.

1972						EISEL (WACC), TEXAS				WATERSHED W-1			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.352	0.093	0.026	0.007	0.006	0.0	0.0	0.0	0.0	0.0	0.056	0.008	
2	0.052	0.054	0.015	0.006	0.006	0.0	0.0	0.0	0.0	0.0	0.033	0.008	
3	1.201	0.028	0.012	0.006	0.003	0.0	0.0	0.0	0.0	0.0	0.005	0.004	
4	0.238	0.030	0.013	0.004	0.002	0.0	0.400	0.0	0.0	0.0	0.0	0.007	
5	0.035	0.036	0.008	0.007	0.002	0.0	0.033	0.0	0.0	0.0	0.0	0.010	
6	0.040	0.052	0.011	0.008	0.014	0.0	0.002	0.0	0.0	0.0	0.0	0.005	
7	0.035	0.027	0.014	0.005	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.003	
8	0.037	0.030	0.009	0.003	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.012	
9	0.046	0.031	0.005	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.012	
10	0.041	0.028	0.012	0.004	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.010	
11	0.031	0.041	0.015	0.004	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.009	
12	0.024	0.048	0.014	0.004	0.012	0.0	0.0	0.004	0.0	0.025	0.101	0.0	
13	0.022	0.036	0.013	0.003	0.005	0.0	0.0	0.001	0.0	0.0	0.356	0.024	
14	0.017	0.031	0.013	0.003	0.004	0.0	0.0	0.0	0.0	0.0	0.007	3.661	
15	0.012	0.022	0.011	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.205	
16	0.019	0.020	0.009	0.002	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.036	
17	0.025	0.018	0.009	0.002	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.029	
18	0.029	0.014	0.008	0.002	0.014	0.0	0.0	0.0	0.0	0.009	0.026	0.0	
19	0.028	0.015	0.009	0.003	0.022	0.0	0.0	0.0	0.0	0.0	0.005	0.015	
20	0.027	0.018	0.013	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.010	
21	0.022	0.021	0.012	0.013	0.003	0.0	0.0	0.0	0.0	0.0	0.006	0.006	
22	0.024	0.020	0.008	0.002	0.002	0.0	0.0	0.0	0.0	0.020	0.001	0.007	
23	0.021	0.020	0.009	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.007	
24	0.018	0.020	0.009	0.002	0.003	0.0	0.0	0.0	0.0	0.052	0.0	0.005	
25	0.011	0.018	0.009	0.001	0.003	0.0	0.0	0.0	0.0	0.0	0.081	0.007	
26	0.015	0.013	0.012	0.001	0.002	0.0	0.0	0.0	0.0	2.176	0.013	0.005	
27	0.041	0.017	0.022	0.034	0.002	0.0	0.0	0.0	0.0	0.068	0.011	0.005	
28	0.307	0.016	0.017	0.008	0.003	0.0	0.0	0.0	0.0	0.0	0.004	0.008	
29	2.143	0.059	0.005	0.005	0.001	0.0	0.0	0.0	0.0	0.037	0.004	0.011	
30	0.179	0.005	0.003	0.001	0.064	0.0	0.0	0.0	0.0	0.037	0.013	0.009	
31	0.054	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.066	0.0	0.005	
BEAN	0.1674	0.0302	0.0116	0.0051	0.0053	0.0021	0.0140	0.0001	0.0	0.0775	0.0241	0.1379	
INCHES	0.702	0.118	0.049	0.021	0.022	0.009	0.059	0.001	0.0	0.325	0.058	0.578	
STA AV	0.492	0.601	0.715	0.980	1.150	0.583	0.121	0.097	0.129	0.162	0.415	0.545	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.136791. Records began July 1937; part-year amounts not included in averages. STA AV based on 35 yr period.

1972 SELECTED RUNOFF EVENT												EISEL (WACC), TEXAS				WATERSHED W-1			
ANTECEDENT CONDITIONS						RAINFALL						RORCFS							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		Date	Time	Rate	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(cfs)	(inches)				
EVENT CP OCTOBER 26 - 27, 1972																			
EG 0000W2																			
10-26	0.0	0.0	10-26	900	0.0	0.0	10-26	1129	0.0	0.0									
				946	0.0913	0.07		1131	0.0	0.0									
				956	0.0601	0.08		1133	0.0	0.0									
				1031	0.0	0.08		1135	0.001	0.0									
				1036	0.1159	0.09		1137	0.004	0.0									
WATERSHED CONDITIONS:																			
11% oats; 85% pasture, Bermuda grass, good cover																			
moderately grazed; 18 gravel roads; 1% Johnson grass and weeds, not tilled or grazed.																			
Straight row cultivation, not terraced. Watershed is in process of land use change to grass. Conversion is not complete.																			
				1044	0.2250	0.12		1138	0.005	0.0									
				1046	1.5001	0.17		1139	0.018	0.0									
				1056	0.8400	0.31		1140	0.034	0.0									
				1100	0.5599	0.35		1142	0.048	0.0									
				1102	1.8004	0.41		1144	0.053	0.0									
				1106	0.7498	0.46		1149	0.063	0.0									
				1111	1.6800	0.60		1154	0.058	0.0									
				1116	1.2001	0.70		1159	0.055	0.0									
				1121	0.2401	0.72		1204	0.063	0.0									
				1126	0.4799	0.76		1208	0.070	0.0									
				1136	0.0	0.76		1210	0.083	0.0									
				1141	0.3600	0.79		1212	0.100	0.0									
				1146	0.1201	0.80		1214	0.130	0.0									
				1201	0.0	0.80		1216	0.176	0.0									
				1206	0.2399	0.82		1218	0.232	0.0									
				1216	0.4200	0.89		1220	0.304	0.0001									
				1226	0.4800	0.57		1222	0.362	0.0002									
				1231	1.5599	1.10		1224	0.425	0.0003									
				1236	0.9600	1.18		1229	0.539	0.0005									
				1241	0.1201	1.19		1234	0.630	0.0008									
				1246	0.3600	1.22		1239	0.741	0.0011									
				1251	0.3600	1.25		1244	1.175	0.0015									
				1256	0.4799	1.29		1249	1.563	0.0022									
				1301	0.5600	1.37		1254	2.069	0.0030									
				1306	0.4801	1.41		1259	2.736	0.0041									

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005700.

1972 SELECTED RUNOFF EVENT			BIRSEL (WACO), TEXAS				WATERSHED W-1			
ANTICIPATED CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)										
10-26	1311	0.5509	10-26	1304	3.427	0.0056	10-26	1304	3.427	0.0056
	1316	0.8401		1309	4.161	0.0074		1309	4.161	0.0074
	1321	0.6000		1314	5.044	0.0095		1314	5.044	0.0095
	1326	0.3600		1319	5.830	0.0121		1319	5.830	0.0121
	1331	0.7200		1329	7.829	0.0184		1329	7.829	0.0184
	1336	0.1199		1339	9.774	0.0267		1339	9.774	0.0267
	1346	0.5400		1349	12.055	0.0371		1349	12.055	0.0371
	1356	0.2401		1359	13.213	0.0488		1359	13.213	0.0488
	1416	0.0		1409	13.523	0.0615		1409	13.523	0.0615
	1426	0.1800		1419	13.175	0.0741		1419	13.175	0.0741
	1436	0.0		1429	12.207	0.0858		1429	12.207	0.0858
	1446	0.3000		1439	10.857	0.0567		1439	10.857	0.0567
	1456	0.1800		1449	10.178	0.1067		1449	10.178	0.1067
				1459	9.562	0.1158		1459	9.562	0.1158
				1509	8.575	0.1244		1509	8.575	0.1244
10-27			10-27	1519	7.881	0.1322	10-27	1519	7.881	0.1322
				1524	7.803	0.1358		1524	7.803	0.1358
				1529	6.367	0.1395		1529	6.367	0.1395
				1534	9.177	0.1438		1534	9.177	0.1438
				1539	5.713	0.1482		1539	5.713	0.1482
				1544	9.897	0.1527		1544	9.897	0.1527
				1549	9.928	0.1575		1549	9.928	0.1575
				1559	9.562	0.1665		1559	9.562	0.1665
				1619	8.387	0.1835		1619	8.387	0.1835
				1639	7.423	0.1983		1639	7.423	0.1983
				1659	6.322	0.2112		1659	6.322	0.2112
				1729	5.175	0.2274		1729	5.175	0.2274
				1759	4.145	0.2405		1759	4.145	0.2405
				1829	3.290	0.2510		1829	3.290	0.2510
				1859	2.760	0.2595		1859	2.760	0.2595
				1929	2.246	0.2666		1929	2.246	0.2666
				1959	1.841	0.2724		1959	1.841	0.2724
				2029	1.532	0.2772		2029	1.532	0.2772
				2059	1.277	0.2812		2059	1.277	0.2812
				2129	1.055	0.2845		2129	1.055	0.2845
				2159	0.864	0.2872		2159	0.864	0.2872
				2229	0.717	0.2894		2229	0.717	0.2894
				2259	0.587	0.2912		2259	0.587	0.2912
				2329	0.509	0.2927		2329	0.509	0.2927
				2400	0.440	0.2941		2400	0.440	0.2941
				100	0.320	0.2962		100	0.320	0.2962
				200	0.233	0.2978		200	0.233	0.2978
				300	0.177	0.2990		300	0.177	0.2990
				400	0.127	0.2599		400	0.127	0.2599
				500	0.104	0.3006		500	0.104	0.3006
				600	0.085	0.3011		600	0.085	0.3011
				700	0.063	0.3015		700	0.063	0.3015
				800	0.052	0.3018		800	0.052	0.3018
				900	0.043	0.3021		900	0.043	0.3021
				1000	0.036	0.3023		1000	0.036	0.3023
				1100	0.031	0.3025		1100	0.031	0.3025
				1200	0.027	0.3027		1200	0.027	0.3027
				1400	0.020	0.3030		1400	0.020	0.3030
				1600	0.014	0.3032		1600	0.014	0.3032
				1800	0.009	0.3033		1800	0.009	0.3033
				2000	0.006	0.3034		2000	0.006	0.3034
				2200	0.004	0.3035		2200	0.004	0.3035
				2400	0.002	0.3035		2400	0.002	0.3035

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005700.

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 19 sec. N.; Long. 96 deg. 52 min. 55 sec. W.

AREA: 130.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												RIESEL (WACO), TEXAS WATERSHED W-2	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	2.32	0.75	0.51	1.77	3.00	4.53	1.86	4.58	2.66	4.85	3.10	1.76	31.70
Q	1.253	0.477	0.241	0.102	0.104	0.085	0.152	0.081	0.007	0.341	0.378	0.448	4.070
STA AV P	2.15	2.67	2.42	3.93	4.13	3.23	1.71	2.29	2.59	2.73	2.55	2.61	33.42
Q	0.595	0.733	0.829	1.032	1.175	0.550	0.123	0.050	0.109	0.178	0.440	0.672	6.527
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Maximum Volume for Selected Time Interval													
Maximum Discharge	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days
Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date Vol.
1972	12-14	0.090	12-14	0.084	12-14	0.155	12-14	0.359	12-14	0.459	12-14	0.502	12-14 0.518 12-12 0.555
MAXIMUMS FOR PERIOD OF RECORD													
	5- 1	4.830	5- 1	2.660	5- 1	5.400	5- 1	6.910	5- 1	6.970	5- 1	7.120	4-30 5.260 4-25 10.560
	1944		1944		1944		1944		1944		1944		1944

NOTES: Watershed conditions: 56% pasture; 16% row grain sorghum; 19% fall planted small grain, largely oats; 3% cotton; 5% gravel and paved roads; 1% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. Cropland farmed on contour, not terraced. Modified conservation applied 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began July 1937; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages W-2, W-4, W-5A, and W-6. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.31	0.13	0.13E	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.22	0.0	
2	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	1.81	0.16	0.0	0.0	0.0	0.0	
5	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	
7	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	1.15	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.59	0.0	1.14	0.0	0.0	0.0	0.0	
11	0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.005
12	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.95	0.02E	0.0	0.74	0.0	
13	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	1.16	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.21	
15	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.77	0.00E	0.0	0.0	1.56	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.04E	0.0	
18	0.0	0.0	0.0	0.0	0.46	0.0	0.01E	0.0	0.0	0.0	0.25	0.06E	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	
20	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.62	0.0	0.0	0.02E	0.0	0.0	0.25	0.17	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.54	0.0	1.84	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.13	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.42	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	1.77	0.0	0.0	
27	0.13E	0.0	0.28	1.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.59E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.67	0.41	0.0	0.0	0.0	0.0	0.02E	0.0	0.26	0.57	0.01E	0.03E	
30	0.0	0.0	0.0	0.0	0.0	3.48	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	
TOTAL	2.32	0.75	0.51	1.77	3.00	4.53	1.86	4.58	2.66	4.85	3.10	1.76	
STA AV	2.15	2.67	2.42	3.93	4.13	3.23	1.71	2.29	2.59	2.73	2.55	2.61	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages W-2, W-4, W-5A, and W-6. Records began July 1937. STA AV based on 35 yr period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs)						HRSERL (WACC), TEXAS						WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	
1	0.596	0.165	0.073	0.025	0.023	0.007	0.010	0.0	0.0	0.0	0.124	0.052	
2	0.180	0.114	0.056	0.020	0.021	0.007	0.001	0.0	0.0	0.0	0.055	0.055	
3	1.183	0.054	0.051	0.019	0.012	0.006	0.0	0.0	0.0	0.0	0.040	0.056	
4	0.279	0.101	0.050	0.016	0.010	0.008	0.059	0.002	0.0	0.0	0.038	0.049	
5	0.106	0.107	0.041	0.018	0.009	0.008	0.040	0.002	0.0	0.0	0.041	0.054	
6	0.104	0.116	0.046	0.024	0.041	0.064	0.018	0.0	0.0	0.0	0.054	0.046	
7	0.097	0.089	0.049	0.020	0.028	0.005	0.021	0.0	0.0	0.0	0.047	0.046	
8	0.103	0.101	0.041	0.015	0.017	0.008	0.024	0.0	0.0	0.0	0.043	0.053	
9	0.109	0.093	0.044	0.016	0.013	0.004	0.022	0.015	0.0	0.0	0.047	0.051	
10	0.105	0.092	0.050	0.019	0.013	0.027	0.022	0.066	0.0	0.0	0.045	0.054	
11	0.095	0.105	0.052	0.020	0.015	0.011	0.021	0.017	0.0	0.0	0.047	0.055	
12	0.087	0.100	0.052	0.015	0.046	0.006	0.020	0.155	0.0	0.0	0.057	0.082	
13	0.086	0.092	0.052	0.011	0.005	0.021	0.021	0.025	0.0	0.0	0.048	0.083	
14	0.079	0.091	0.049	0.015	0.019	0.006	0.018	0.10	0.0	0.0	0.048	2.629	
15	0.077	0.088	0.046	0.013	0.012	0.015	0.013	0.009	0.0	0.0	0.050	0.200	
16	0.080	0.083	0.039	0.010	0.061	0.012	0.014	0.005	0.007	0.0	0.050	0.066	
17	0.083	0.078	0.040	0.010	0.023	0.010	0.013	0.010	0.021	0.0	0.054	0.068	
18	0.087	0.072	0.033	0.012	0.026	0.008	0.014	0.010	0.002	0.0	0.076	0.078	
19	0.087	0.073	0.037	0.012	0.025	0.004	0.025	0.011	0.0	0.0	0.054	0.083	
20	0.085	0.079	0.046	0.011	0.014	0.001	0.011	0.007	0.0	0.0	0.052	0.076	
21	0.084	0.078	0.045	0.040	0.012	0.0	0.009	0.006	0.0	0.0	0.063	0.067	
22	0.087	0.078	0.035	0.014	0.011	0.0	0.012	0.022	0.0	0.0	0.068	0.057	0.066
23	0.082	0.074	0.033	0.011	0.013	0.0	0.012	0.031	0.0	0.004	0.055	0.065	
24	0.082	0.071	0.035	0.010	0.014	0.0	0.007	0.017	0.005	0.001	0.128	0.065	
25	0.070	0.070	0.030	0.008	0.014	0.0	0.006	0.007	0.005	0.0	0.077	0.066	
26	0.080	0.060	0.035	0.008	0.011	0.0	0.003	0.004	0.0	1.335	0.055	0.067	
27	0.104	0.064	0.045	0.081	0.011	0.0	0.001	0.003	0.0	0.088	0.056	0.062	
28	0.468	0.064	0.042	0.029	0.010	0.0	0.0	0.002	0.0	0.022	0.054	0.064	
29	1.769	0.113	0.023	0.019	0.008	0.0	0.0	0.0	0.0	0.154	0.055	0.068	
30	0.203	0.024	0.015	0.008	0.008	0.307	0.002	0.0	0.0	0.068	0.054	0.068	
31	0.104	0.025	0.005	0.005	0.005	0.0	0.0	0.0	0.0	0.119	0.077	0.063	
MEAN	0.2207	0.0899	0.0425	0.0186	0.0184	0.0155	0.0269	0.0143	0.0013	0.0600	0.0687	0.1455	
INCHES	1.253	0.477	0.241	0.102	0.104	0.085	0.152	0.081	0.007	6.341	0.378	0.848	
STA AV	0.595	0.173	0.829	1.032	1.175	0.555	0.123	0.090	0.109	0.178	0.440	0.672	

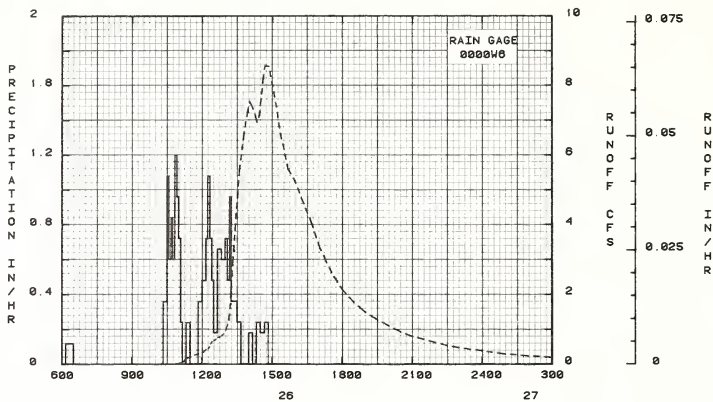
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.183090. Records began July 1937. STA AV based on 35 yr period.

1972 SELECTED RUNOFF EVENT						HRSERL (WACC), TEXAS						WATERSHED W-2	
ANTECEDENT CONDITIONS						RAINFALL						RUNOFF	
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT CF OCTOBER 26 - 27, 1972													
EG 0000W6													
10-26	0.0	0.000	10-26	EG 0000W6	610	0.0	0.0	10-26	1041	0.004	0.0		
					630	0.1200	0.04		1046	0.007	0.0		
					1020	0.0	0.04		1051	0.012	0.0		
					1030	0.3600	0.10		1056	0.015	0.0		
					1035	1.0800	0.19		1101	0.030	0.0		
WATERSHED CONDITIONS:													
					1040	0.6000	0.24		1106	0.047	0.0		
					1045	0.8401	0.31		1111	0.073	0.0		
					1050	0.6000	0.36		1113	0.085	0.0		
					1055	1.1999	0.46		1115	0.105	0.0		
					1100	0.5600	0.54		1117	0.126	0.0		
					1105	0.7200	0.60		1121	0.166	0.0001		
					1110	0.2401	0.62		1131	0.223	0.0003		
					1120	0.0	0.62		1141	0.266	0.0006		
					1130	0.2400	0.66		1151	0.299	0.0010		
					1150	0.0	0.66		1201	0.344	0.0014		
					1200	0.3600	0.72		1211	0.418	0.0019		
					1210	0.4600	0.80		1216	0.54	0.0022		
					1215	0.7201	0.86		1220	0.458	0.0024		
					1220	1.0800	0.95		1223	0.590	0.0026		
					1225	0.7200	1.01		1226	0.652	0.0028		
					1230	0.4799	1.05		1231	0.664	0.0032		
					1240	0.1800	1.08		1236	0.717	0.0036		
					1250	0.6600	1.19		1241	0.765	0.0041		
					1300	0.6000	1.29		1246	0.780	0.0046		
					1305	0.7200	1.35		1251	0.824	0.0051		
					1310	0.4801	1.39		1256	0.874	0.0056		
					1315	0.9598	1.47		1301	0.972	0.0062		
					1320	0.3602	1.50		1306	1.138	0.0069		
					1330	0.3600	1.56		1309	1.271	0.0074		
					1340	0.2400	1.60		1311	1.436	0.0077		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007625.

1972 SELECTED RUNOFF EVENT			EISEL (WACO), TEXAS WATERBED #2							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)										
10-26	1400	0.0	1.60	10-26	1314	1.930	0.0084			
	1410	0.1600	1.63		1317	2.531	0.0053			
	1420	0.0	1.63		1319	2.929	0.0100			
	1430	0.2401	1.67		1321	3.250	0.0107			
	1440	0.1800	1.70		1326	4.034	0.0130			
	1450	0.2400	1.74		1331	4.624	0.0159			
					1336	5.565	0.0152			
					1346	6.522	0.0269			
					1356	7.226	0.0355			
					1401	7.548	0.0403			
			1411	7.324	0.0496					
			1421	6.938	0.0587					
			1426	7.129	0.0631					
			1431	7.624	0.0679					
			1436	8.171	0.0728					
			1441	8.579	0.0780					
			1451	8.552	0.0890					
			1501	7.959	0.0996					
			1511	7.373	0.1092					
			1521	6.613	0.1182					
			1541	5.565	0.1336					
			1601	5.154	0.1474					
			1621	4.555	0.1598					
			1641	4.065	0.1708					
			1701	3.386	0.1803					
			1721	2.904	0.1883					
			1741	2.476	0.1951					
			1801	2.127	0.2010					
			1831	1.756	0.2084					
			1901	1.480	0.2146					
			1931	1.271	0.2198					
			2001	1.090	0.2243					
			2031	0.519	0.2281					
			2101	0.794	0.2314					
			2131	0.707	0.2343					
			2201	0.614	0.2368					
			2231	0.530	0.2390					
			2301	0.469	0.2409					
			2331	0.421	0.2426					
			2400	0.375	0.2441					
			10-27	100	0.293	0.2466				
				200	0.233	0.2486				
				300	0.191	0.2502				
				400	0.157	0.2515				
				500	0.124	0.2526				
				600	0.108	0.2535				
				800	0.079	0.2549				
			1000	0.061	0.2560					
			1200	0.055	0.2569					

NOTES: To convert runoff in CFS to in/hr, multiply by 0.007625.



EVENT OF OCTOBER 26 - 27, 1972
RIESEL (WACO), TEXAS WATERSHED W-2

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 24 sec. N.; Long. 96 deg. 53 min. 11 sec. W.

AREA: 42.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												RIESEL (WACO), TEXAS WATERSHED W-6	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	2.40	0.69	0.47	1.69	2.94	4.34	1.87	4.58	2.18	4.50	2.21	1.77	30.04
Q	0.360	0.053	0.006	0.0	0.0	0.067	0.120	0.0	0.0	0.155	0.033	0.313	1.112
STA AV P	1.99	2.60	2.31	3.94	3.85	3.34	1.69	2.37	2.68	2.91	2.95	2.47	33.10
Q	0.316	0.388	0.521	0.695	0.753	0.447	0.078	0.047	0.083	0.111	0.313	0.450	4.204
ANNUAL MAXIMUM DISCHARGE (in/hr) and MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	10-26	0.101	10-26	0.073	10-26	0.122	12-14	0.219	12-14	0.279	12-14	0.294	12-14
	6-10	3.990	4-19	2.330	4-19	2.780	5-11	3.130	5-11	3.210	3-29	4.060	11-22
	1941		1957		1957		1957		1957		1965		1940
													1957

NOTES: Watershed conditions: 33% row grain sorghums; 9% cotton; 33% fall planted small grain, largely oats; 15% pasture; 7% gravel and paved road; 3% other. All of other land use is non-tilled, non-pastured land, generally in various crop acreage reduction programs. Cropland farmed on contour, not terraces. Modified conservation program since 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges W-2, W-4 and W-5a. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED W-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.33	0.12	0.10E	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.28	0.0	
2	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	1.81	0.16	0.0	0.0	0.0	0.0	
5	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	
7	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	1.12	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.47	0.0	1.13	0.0	0.0	0.0	0.0	
11	0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.39E	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.01E	0.0	0.0	0.76	
13	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.20	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.21	
15	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.79	0.00E	0.0	0.0	1.45	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.04E	0.0	
18	0.0	0.0	0.0	0.0	0.48	0.0	0.01E	0.0	0.0	0.0	0.24	0.06E	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	
20	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.58	0.0	0.0	0.03E	0.0	0.0	0.25	0.17	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.70	0.0	1.45	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.11	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.41	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	1.77	0.0	0.0	
27	0.10E	0.0	0.27	1.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.61E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.65	0.37	0.0	0.0	0.0	0.0	0.02E	0.0	0.28	0.58	0.02E	0.04E	
30	0.0	0.0	0.0	0.0	0.0	3.37	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	
TOTAL	2.40	0.69	0.47	1.65	2.54	4.34	1.87	4.58	2.18	4.50	2.21	1.77	
STA AV	1.99	2.60	2.31	3.94	3.85	3.34	1.69	2.37	2.68	2.91	2.55	2.47	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges W-2, W-4, and W-5a. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 30 yr period. Estimate codes may indicate that non-significant event totals are included.

1972		MEAN DAILY DISCHARGE (cfs)					EINSEL (WACC), TEXAS				WATERSHED W-6			
Day	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.052	0.008	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I
2	0.009	0.004	0.0	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.006	0.003	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.017	0.002	0.001	0.0	0.0	0.0	0.213	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.004	0.003	0.0	I	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.004	0.004	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I	0.0
7	0.003	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.004	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.004	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.004	0.002	0.0	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.003	0.003	0.0	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I	0.0
12	0.002	0.003	0.0	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
13	0.002	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.001
14	0.001	0.002	0.0	I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I	0.510
15	0.003	0.002	0.0	I	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.016	
16	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.002	0.002	
17	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.002	0.002	
18	0.002	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.002	0.002	
19	0.002	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I	0.003	
20	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I	0.003	
21	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.002	0.002	
22	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.001	0.001	
23	0.001	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.001	0.001	
24	0.0	I	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.001	0.001	
25	0.0	I	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	
26	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.283	0.001	0.0	I	
27	0.003	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.159	0.033	0.0	I	
28	0.027	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.001	0.001	
29	0.259	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.001	0.001	
30	0.013	0.0	0.0	0.0	0.0	0.119	0.0	0.0	0.0	0.0	0.003	0.002	0.002	
31	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.002	
MEAN	0.0206	0.0032	0.0004	0.0	0.0	0.0040	0.0069	0.0	0.0	0.0091	0.0020	0.0180	0.0180	
INCHES	0.360	0.053	0.006	0.0	0.0	0.067	0.120	0.0	0.0	0.159	0.033	0.313	0.313	
STA AV	0.316	0.388	0.521	0.655	0.753	0.847	0.078	0.047	0.083	0.111	0.313	0.450	0.450	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.562687. Records began May 1935; statics not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 30 yr period.

1972		SELECTED RUNOFF EVENTS					EINSEL (WACO), TEXAS					WATERSHED W-6				
ANTECEDENT CONDITIONS		Runoff		Date		Rainfall		Acc.		Date		Runoff		Acc.		
Date	Rainfall	Rate	Depth	Mo-Day	Time	Intensity	(in/hr)	(inches)	(inches)	Mo-Day	Time	Rate	(cfs)	(inches)	(inches)	
Mo-Day	(inches)	(inches)	(inches)	Mo-Day	of Day	of Day				Mo-Day	of Day	of Day				
EVENT OF OCTOBER 26 - 27, 1972																
EG 0000W4																
10-26	0.04	0.0	0.0	10-26	1026	0.0	0.0	0.0	0.0	10-26	1310	0.0	0.0	0.0	0.0	
					1036	0.3000	0.05	0.05	0.05		1311	0.0	0.0	0.0	0.0	
					1040	0.7500	0.10	0.10	0.10		1312	0.001	0.0	0.0	0.0	
					1042	1.7559	0.16	0.16	0.16		1313	0.004	0.0	0.0	0.0	
					1046	0.6001	0.20	0.20	0.20		1314	0.011	0.0	0.0	0.0	
WATERSHED CONDITIONS:																
33% row grain sorghum; 33% fall planted oats; 9% cotton, 15% pasture, Berardgrass, good cover, moderately grazed; 7% gravel roads; 3% Johnsongrass and weeds, not tilled or grazed. Cropland farmed on contour, not terraced.																
					1051	0.7200	0.26	0.26	0.26		1315	0.026	0.0	0.0	0.0	
					1056	0.6000	0.31	0.31	0.31		1317	0.044	0.0	0.0	0.0	
					1058	0.9000	0.34	0.34	0.34		1319	0.063	0.0	0.0	0.0	
					1106	1.1999	0.50	0.50	0.50		1323	0.087	0.0001	0.0001	0.0001	
					1111	0.7202	0.56	0.56	0.56		1328	0.109	0.0003	0.0003	0.0003	
					1116	0.2399	0.58	0.58	0.58		1333	0.116	0.0005	0.0005	0.0005	
					1126	0.1200	0.60	0.60	0.60		1335	0.127	0.0006	0.0006	0.0006	
					1131	0.0	0.60	0.60	0.60		1336	0.163	0.0007	0.0007	0.0007	
					1136	0.4799	0.64	0.64	0.64		1337	0.413	0.0008	0.0008	0.0008	
					1156	0.0	0.64	0.64	0.64		1338	0.913	0.0011	0.0011	0.0011	
					1206	0.3000	0.69	0.69	0.69		1339	1.317	0.0015	0.0015	0.0015	
					1216	0.3600	0.75	0.75	0.75		1340	1.762	0.0021	0.0021	0.0021	
					1221	0.6000	0.80	0.80	0.80		1341	2.224	0.0028	0.0028	0.0028	
					1226	1.4401	0.52	0.52	0.52		1342	2.505	0.0039	0.0039	0.0039	
					1231	0.5998	0.97	0.97	0.97		1343	2.508	0.0049	0.0049	0.0049	
					1236	0.1201	0.98	0.98	0.98		1346	3.353	0.0086	0.0086	0.0086	
					1241	0.4799	1.02	1.02	1.02		1349	3.679	0.0128	0.0128	0.0128	
					1246	0.1201	1.03	1.03	1.03		1353	3.563	0.0167	0.0167	0.0167	
					1251	0.5998	1.11	1.11	1.11		1358	4.326	0.0267	0.0267	0.0267	
					1256	0.6000	1.16	1.16	1.16		1403	4.326	0.0350	0.0350	0.0350	
					1301	0.3600	1.19	1.19	1.19		1408	4.004	0.0434	0.0434	0.0434	
					1306	0.4801	1.23	1.23	1.23		1413	3.542	0.0507	0.0507	0.0507	
					1311	0.9600	1.31	1.31	1.31		1418	3.011	0.0570	0.0570	0.0570	
					1316	0.3600	1.34	1.34	1.34		1423	2.459	0.0625	0.0625	0.0625	
					1318	2.0998	1.41	1.41	1.41		1428	2.004	0.0668	0.0668	0.0668	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.023405.

1972 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS			WATERSHED W-6					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
			EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)								
			10-26	1322	0.4500	1.44	10-26	1433	1.702	0.0704	
				1326	0.1501	1.45		1438	1.507	0.0736	
				1331	0.2399	1.47		1443	1.650	0.0767	
				1336	0.4401	1.51		1448	1.687	0.0801	
				1341	0.6000	1.56		1453	2.071	0.0841	
				1346	0.2399	1.58		1503	2.325	0.0926	
				1356	0.0601	1.59		1513	2.520	0.1021	
				1411	0.0	1.59		1523	2.281	0.1116	
				1416	0.2399	1.61		1533	1.912	0.1197	
				1426	0.0601	1.62		1543	1.518	0.1265	
				1436	0.1199	1.64		1553	1.190	0.1318	
				1446	0.2401	1.68		1603	1.012	0.1360	
								1613	0.755	0.1396	
								1623	0.682	0.1425	
								1643	0.437	0.1469	
								1703	0.334	0.1499	
								1733	0.214	0.1531	
								1803	0.139	0.1552	
								1833	0.089	0.1565	
								1903	0.063	0.1574	
								2003	0.026	0.1584	
								2103	0.013	0.1589	
								2203	0.005	0.1591	
								2303	0.002	0.1592	
								2400	0.0	0.1592	
								10-27	133	0.0	0.1592

LOCATION: Falls Co., Texas; 15 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 12 sec. N.; Long. 96 deg. 53 min. 00 sec. W.

AREA: 19.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														HIESEL (WACO), TEXAS WATERSHED W-10										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1972 P	2.23	0.81	0.49	1.85	3.10	4.68	1.84	4.61	3.11	4.77	1.58	1.72	31.19											
Q	1.038	0.001	0.0	0.0	0.0	0.001	0.108	0.010	0.0	0.511	0.134	0.574	2.777											
STA AV P	2.02	2.62	2.21	3.92	3.75	3.32	1.64	2.46	2.67	2.93	2.91	2.45	32.89											
Q	0.472	0.501	0.534	0.506	0.844	0.548	0.099	0.130	0.176	0.296	0.513	0.597	5.615											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																								
Maximum Discharge													Maximum Volume for Selected Time Interval											
Date		Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days															
Date		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.							
1972		12-14	0.137	12-14	0.129	12-14	0.242	12-14	0.557	12-14	0.805	12-14	0.915	12-14	0.537	12-11	0.574							
MAXIMUMS FOR PERIOD OF RECORD																								
6-10		5.010	4-19	2.310	4-19	2.550	5-11	3.000	11-22	3.330	11-22	3.530	4-24	5.160	5-19	8.290								
1941		1957	1957	1957	1957	1957	1940	1940	1940	1940	1940	1940	1940	1940	1940	1940								

NOTES: Watershed conditions: 100% Coastal Bermuda grass for pasture. Good cover, moderately grazed, terraced. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.7-5 (revised). Precipitation and runoff records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. Precipitation data obtained from rain gage W-6. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY PRECIPITATION (inches)													HIESEL (WACO), TEXAS WATERSHED W-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.26	0.14	0.101	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.26	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
3	0.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	1.79	0.17	0.0	0.0	0.0	0.0													
5	0.0	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.092	0.0												
7	0.0	0.0	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.068												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
9	0.032	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.0	0.0	0.0	0.0												
10	0.0	0.0	0.0	0.0	0.0	0.72	0.0	1.13	0.0	0.0	0.0	0.0	1.20												
11	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.385												
12	0.0	0.0	0.0	0.0	0.53	0.0	1.21	0.032	0.0	0.0	0.73	0.0	0.0												
13	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.0												
15	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	1.68	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.032	0.0	0.0												
18	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.25	0.068	0.0												
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.112	0.0	0.0	0.0	0.0												
20	0.0	0.0	0.102	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
21	0.0	0.0	0.0	0.65	0.0	0.0	0.032	0.0	0.0	0.29	0.16	0.0	0.0												
22	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	1.64	0.0	0.0	0.0	0.0												
23	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.18	0.0	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.68	0.42	0.0	0.0												
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.052	1.74	0.0	0.0	0.0												
27	0.102	0.0	0.29	1.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
28	0.605	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
29	0.67	0.45	0.0	0.0	0.0	0.0	0.022	0.27	0.55	0.0	0.0	0.0	0.0												
30	0.0	0.0	0.0	0.0	0.0	3.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0												
TOTAL	2.23	0.81	0.45	1.85	3.10	4.68	1.84	4.61	3.11	4.77	1.58	1.72													
STA AV	2.02	2.62	2.21	3.92	3.75	3.32	1.64	2.46	2.67	2.93	2.91	2.45													

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-6. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 30 yr period. Estimate codes may indicate that non-significant event totals are included.

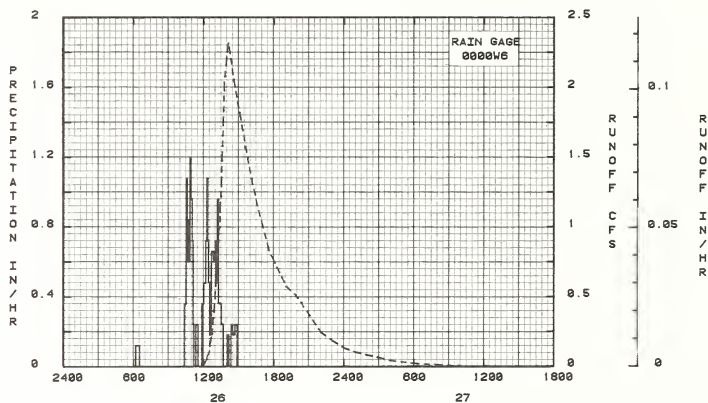
1972						EISEL (WACO), TEXAS WATERSHED #10											
MEAN DAILY DISCHARGE (cfs)																	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.104	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
2	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
3	0.174	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
4	0.045	0.0	0.0	0.0	0.0	0.0	0.087	0.0	0.0	0.0	0.0	0.0					
5	0.005	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0					
6	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
7	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.017	0.020					
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.009					
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.705					
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.066					
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004					
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0					
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0					
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0					
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0					
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0					
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.402	0.0	0.0					
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0					
28	0.119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
29	0.364	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0					
30	0.016	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0					
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
MEAN	0.0277	0.0	0.0	0.0	0.0	0.0	0.0029	0.0003	0.0	0.0136	0.0037	0.0260					
INCHES	1.036	0.001	0.0	0.0	0.0	0.0	0.001	0.008	0.0	0.511	0.134	0.974					
STA AV	0.472	0.501	0.534	0.906	0.844	0.548	0.059	0.130	0.176	0.296	0.513	0.597					

NOTES: To convert mean daily discharge in CFS to IN/DAT, multiply by 1.268206. Records began Aug. 1936; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 30 yr period.

1972 SELECTED RUNOFF EVENT												EISEL (WACO), TEXAS WATERSHED #10												
PRECEDENT CONDITIONS						RAINFALL						RUNOFF												
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Time	Rate	Acc.	Date	Time	Date	Time	Rate	Acc.	Date	Time	Date	Time	Rate	Acc.
#-Day	(inches)	(inches)	#-Day	of Day	(in/hr)	(inches)	#-Day	of Day	#-Day	of Day	(cfs)	(inches)	#-Day	of Day	#-Day	of Day	(cfs)	(inches)	#-Day	of Day	#-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 26 - 27, 1972																								
RG 000006												RG 000006												
10-26	0.0	0.0	10-26	610	0.0	0.0	10-26	1135	0.0	0.0	0.0	0.0	10-26	1135	0.0	0.0	0.0	0.0	10-26	1135	0.0	0.0	0.0	0.0
				630	0.1200	0.04		1140	0.0	0.0	0.0	0.0		1140	0.0	0.0	0.0	0.0		1140	0.0	0.0	0.0	0.0
				1020	0.0	0.04		1145	0.002	0.0	0.0	0.0		1145	0.002	0.0	0.0	0.0		1145	0.002	0.0	0.0	0.0
				1030	0.3600	0.10		1150	0.008	0.0	0.0	0.0		1150	0.008	0.0	0.0	0.0		1150	0.008	0.0	0.0	0.0
				1035	1.0800	0.19		1155	0.008	0.0	0.0	0.0		1155	0.008	0.0	0.0	0.0		1155	0.008	0.0	0.0	0.0
WATERSHED CONDITIONS:												WATERSHED CONDITIONS:												
100% Coastal Bermuda grass												100% Coastal Bermuda grass												
pasture, 4 inches high,												pasture, 4 inches high,												
good cover, dormant.												good cover, dormant.												
				1040	0.6000	0.24		1200	0.016	0.0001	0.0001	0.0001		1200	0.016	0.0001	0.0001	0.0001		1200	0.016	0.0001	0.0001	0.0001
				1045	0.8401	0.31		1205	0.023	0.0002	0.0002	0.0002		1205	0.023	0.0002	0.0002	0.0002		1205	0.023	0.0002	0.0002	0.0002
				1050	0.6000	0.36		1210	0.036	0.0003	0.0003	0.0003		1210	0.036	0.0003	0.0003	0.0003		1210	0.036	0.0003	0.0003	0.0003
				1055	1.1599	0.46		1215	0.050	0.0005	0.0005	0.0005		1215	0.050	0.0005	0.0005	0.0005		1215	0.050	0.0005	0.0005	0.0005
				1100	0.3600	0.54		1220	0.077	0.0008	0.0008	0.0008		1220	0.077	0.0008	0.0008	0.0008		1220	0.077	0.0008	0.0008	0.0008
				1105	0.7200	0.60		1225	0.094	0.0012	0.0012	0.0012		1225	0.094	0.0012	0.0012	0.0012		1225	0.094	0.0012	0.0012	0.0012
				1110	0.2401	0.62		1230	0.112	0.0016	0.0016	0.0016		1230	0.112	0.0016	0.0016	0.0016		1230	0.112	0.0016	0.0016	0.0016
				1120	0.0	0.62		1235	0.179	0.0022	0.0022	0.0022		1235	0.179	0.0022	0.0022	0.0022		1235	0.179	0.0022	0.0022	0.0022
				1130	0.2400	0.66		1240	0.211	0.0030	0.0030	0.0030		1240	0.211	0.0030	0.0030	0.0030		1240	0.211	0.0030	0.0030	0.0030
				1150	0.0	0.66		1245	0.227	0.0039	0.0039	0.0039		1245	0.227	0.0039	0.0039	0.0039		1245	0.227	0.0039	0.0039	0.0039
				1200	0.3600	0.72		1250	0.351	0.0051	0.0051	0.0051		1250	0.351	0.0051	0.0051	0.0051		1250	0.351	0.0051	0.0051	0.0051
				1210	0.4800	0.80		1255	0.447	0.0067	0.0067	0.0067		1255	0.447	0.0067	0.0067	0.0067		1255	0.447	0.0067	0.0067	0.0067
				1215	0.7201	0.86		1300	0.542	0.0086	0.0086	0.0086		1300	0.542	0.0086	0.0086	0.0086		1300	0.542	0.0086	0.0086	0.0086
				1220	1.0800	0.95		1305	0.631	0.0112	0.0112	0.0112		1305	0.631	0.0112	0.0112	0.0112		1305	0.631	0.0112	0.0112	0.0112
				1225	0.7200	1.01		1310	0.736	0.0140	0.0140	0.0140		1310	0.736	0.0140	0.0140	0.0140		1310	0.736	0.0140	0.0140	0.0140
				1230	0.4799	1.05		1315	0.874	0.0175	0.0175	0.0175		1315	0.874	0.0175	0.0175	0.0175		1315	0.874	0.0175	0.0175	0.0175
				1240	0.1800	1.08		1320	0.995	0.0214	0.0214	0.0214		1320	0.995	0.0214	0.0214	0.0214		1320	0.995	0.0214	0.0214	0.0214
				1250	0.6600	1.19		1325	1.144	0.0258	0.0258	0.0258		1325	1.144	0.0258	0.0258	0.0258		1325	1.144	0.0258	0.0258	0.0258
				1300	0.6000	1.29		1330	1.317	0.0311	0.0311	0.0311		1330	1.317	0.0311	0.0311	0.0311		1330	1.317	0.0311	0.0311	0.0311
				1305	0.7200	1.35		1335	1.540	0.0370	0.0370	0.0370		1335	1.540	0.0370	0.0370	0.0370		1335	1.540	0.0370	0.0370	0.0370
				1310	0.4801	1.39		1340	1.786	0.0439	0.0439	0.0439		1340	1.786	0.0439	0.0439	0.0439		1340	1.786	0.0439	0.0439	0.0439
				1315	0.5598	1.47		1345	2.044	0.0522	0.0522	0.0522		1345	2.044	0.0522	0.0522	0.0522		1345	2.044	0.0522	0.0522	0.0522
				1320	0.3602	1.50		1355	2.181	0.0696	0.0696	0.0696		1355	2.181	0.0696	0.0696	0.0696		1355	2.181	0.0696	0.0696	0.0696
				1330	0.3600	1.56		1405	2.325	0.0687	0.0687	0.0687		1405	2.325	0.0687	0.0687	0.0687		1405	2.325	0.0687	0.0687	0.0687
				1340	0.2400	1.60		1415	2.238	0.1080	0.1080	0.1080		1415	2.238	0.1080	0.1080	0.1080		1415	2.238	0.1080	0.1080	0.1080

1972	SELECTED RUNOFF EVENT			SISSEL (WACO), TEXAS WATERSHED W-10								
ANTECEDENT CONDITIONS			RAINFALL				20 INCH					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)												
10-26			1400	0.0	1.60	10-26	1435	2.044	0.1438			
			1410	0.1800	1.63		1505	1.799	0.1922			
			1420	0.0	1.63		1535	1.571	0.2347			
			1430	0.2401	1.67		1605	1.337	0.2713			
			1440	0.1800	1.70		1635	1.153	0.3026			
			1450	0.2400	1.74		1705	0.986	0.3295			
							1735	0.829	0.3523			
							1805	0.736	0.3720			
							1905	0.571	0.4049			
							2005	0.488	0.4316			
							2105	0.359	0.4529			
							2205	0.241	0.4680			
							2305	0.176	0.4785			
							2400	0.135	0.4857			
							10-27	100	0.097	0.4915		
							200	0.077	0.4959			
							300	0.057	0.4993			
							400	0.044	0.5018			
							500	0.025	0.5053			
							600	0.013	0.5072			
							1000	0.005	0.5081			
							1200	0.002	0.5085			
							1600	0.0	0.5088			
							2400	0.0	0.5088			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.050342.



EVENT OF OCTOBER 26 - 27, 1972
SISSEL (WACO), TEXAS WATERSHED W-10

BIESEL (WACO), TEXAS WATERSHED Y

LOCATION: Falls Co., Texas; 17 mi. SE Waco; Brazos Basin. Lat. 31 deg. 28 min. 36 sec. N.; Long. 96 deg. 52 min. 36 sec. W.

AREA: 309.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												BIESEL (WACO), TEXAS WATERSHED Y											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972	P 2.47	0.89	0.44	1.78	3.31	4.20	2.14	5.53	3.23	5.11	2.19	1.62	33.11										
	Q 0.979	0.162	0.023	0.001	0.048	0.005	0.104	0.012	0.0	0.338	0.121	0.434	2.226										
STA AV	P 2.11	2.60	2.25	3.83	3.79	3.42	1.77	2.17	2.59	2.79	2.80	2.46	32.59										
	Q 0.495	0.529	0.555	0.741	0.689	0.524	0.144	0.051	0.093	0.106	0.346	0.433	4.705										

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS

Maximum Discharge												Maximum Volume for Selected Time Interval											
Date	Date	1 Hour	Date	Date	2 Hours	Date	Date	6 Hours	Date	Date	12 Hours	Date	Date	1 Day	Date	Date	2 Days	Date	Date	8 Days	Date	Date	Date
1972	1-3	0.050	10-26	0.075	10-26	0.131	12-14	0.257	12-14	0.336	12-14	0.365	12-14	0.375	1-1	0.473							

MAXIMUMS FOR PERIOD OF RECORD

4-19	2.540	4-19	2.150	4-19	2.740	4-19	3.460	4-19	3.660	3-29	3.580	11-22	4.770	4-19	9.360
1957		1957		1957		1957		1957		1965		1940		1957	

NOTES: Watershed conditions: 12% cotton; 14% fall planted small grain, largely oats; 15% row grain sorghum; 1% gravel and paved roads. Cropland terraced, contour cultivation. No change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges 69, 69E, 70, 75A, 84A, 89, and W-2A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972						DAILY PRECIPITATION (inches)						BIESEL (WACO), TEXAS WATERSHED Y					
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.25	0.14E	0.12E	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.31	0.0					
2	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
3	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.97	0.15	0.0	0.0	0.0	0.0				
5	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
6	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0				
7	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E				
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.08	0.0	0.0	0.0	0.0				
10	0.0	0.0	0.0	0.0	0.01E	0.38	0.0	1.33	0.0	0.0	0.0	0.0	0.0				
11	0.0	0.12E	0.0	0.0	0.00E	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.40E				
12	0.0	0.0	0.0	0.0	0.22	0.0	0.07E	0.35	0.06E	0.0	0.75	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
14	0.0	0.0	0.0	0.0	0.01E	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	1.23				
15	0.0	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0	1.71	0.0	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.11E	0.0	0.0				
18	0.0	0.0	0.0	0.0	1.10	0.0	0.05E	0.0	0.0	0.0	0.19	0.05E	0.0				
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0				
20	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.0	0.0	0.0	0.53	0.0	0.0	0.03E	0.0	0.0	0.32	0.18	0.0	0.0				
22	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	1.18	0.0	1.89	0.0	0.0	0.0				
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.17	0.10E	0.0	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.45	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	1.97	0.0	0.0	0.0				
27	0.11E	0.0	0.20	1.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
28	0.67E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
29	0.73	0.57	0.0	0.0	0.0	0.00E	0.01E	0.0	0.33	0.52	0.03E	0.06E	0.0				
30	0.0	0.0	0.0	0.0	0.0	3.19	0.0	0.0	0.0	0.07	0.0	0.0	0.0				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0				
TOTAL	2.47	0.89	0.44	1.78	3.31	4.20	2.14	5.53	3.23	5.11	2.19	1.82					
STA AV	2.11	2.60	2.25	3.83	3.79	3.42	1.77	2.17	2.59	2.79	2.80	2.46					

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 69, 69E, 70, 75A, 84A, 89, and W-2A. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 31 yr period. Estimate codes may indicate that non-significant event totals are included.

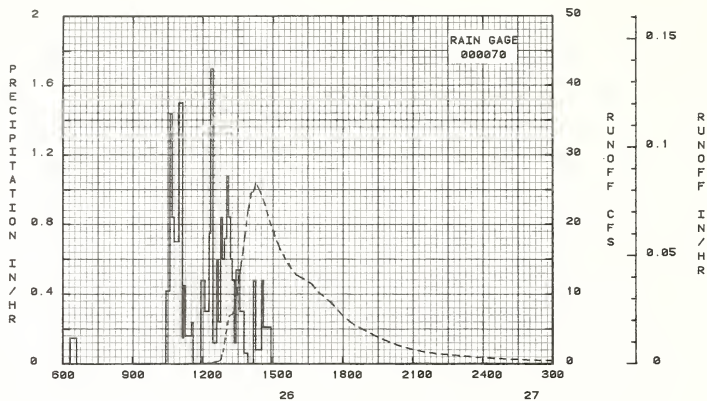
1972	MEAN DAILY DISCHARGE (cfs)					RIESEL (WACC), TEXAS				WATERSHED Y		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.367	0.347	0.074	0.0	0.002	0.0	0.002	0.0	0.0	0.0	0.261	0.011
2	0.314	0.186	0.031	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.074	0.011
3	3.250	0.068	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.024	0.013
4	0.647	0.073	0.016	0.0	0.0	0.0	1.236	0.0	0.0	0.0	0.013	0.009
5	0.136	0.093	0.010	0.0	0.0	0.0	0.110	0.0	0.0	0.0	0.010	0.014
6	0.155	0.157	0.010	0.0	0.007	0.0	0.001	0.0	0.0	0.0	0.017	0.007
7	0.136	0.064	0.013	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.011	0.006
8	0.136	0.062	0.008	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.008	0.015
9	0.185	0.063	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.014
10	0.131	0.057	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.012
11	0.096	0.079	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.017
12	0.079	0.089	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.106	0.084
13	0.068	0.058	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.617	0.053
14	0.045	0.051	0.011	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.017	4.533
15	0.039	0.042	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.375
16	0.054	0.039	0.005	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.012	0.052
17	0.065	0.035	0.001	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.011	0.035
18	0.075	0.023	0.0	0.0	0.462	0.0	0.0	0.0	0.0	0.0	0.058	0.036
19	0.070	0.021	0.0	0.0	0.110	0.0	0.0	0.0	0.0	0.0	0.014	0.053
20	0.066	0.024	0.005	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.010	0.045
21	0.051	0.030	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.035
22	0.051	0.026	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.025
23	0.043	0.027	0.001	0.0	0.0	0.0	0.0	0.104	0.0	0.0	0.010	0.022
24	0.040	0.022	0.003	0.0	0.0	0.0	0.0	0.055	0.0	0.0	0.100	0.018
25	0.024	0.015	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.081	0.015
26	0.027	0.013	0.001	0.0	0.0	0.0	0.0	0.0	0.0	3.672	0.020	0.016
27	0.077	0.017	0.006	0.008	0.0	0.0	0.0	0.0	0.0	0.165	0.015	0.016
28	0.830	0.016	0.005	0.004	0.0	0.0	0.0	0.0	0.0	0.014	0.005	0.015
29	3.914	0.300	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.201	0.011	0.024
30	0.409	0.0	0.0	0.0	0.0	0.070	0.0	0.0	0.0	0.093	0.013	0.026
31	0.128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.241	0.0	0.016
MEAN	0.4100	0.0725	0.0097	0.0004	0.0202	0.0023	0.0435	0.0051	0.0	0.1415	0.0524	0.1818
1 INCHES	0.979	0.162	0.023	0.001	0.048	0.005	0.104	0.012	0.0	0.338	0.121	0.438
STA A1	0.455	0.529	0.555	0.741	0.689	0.524	0.144	0.051	0.093	0.106	0.346	0.433

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.077028. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA A1 based on 31 yr period.

1972	SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED Y			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 26 - 27, 1972										
RG 000070										
10-26	0.0	0.0	10-26	620	0.0	0.0	10-26	1100	0.0	0.0
				636	0.1500	0.08		1105	0.0	0.0
				1026	0.0	0.04		1110	0.0	0.0
				1036	0.4200	0.11		1115	0.001	0.0
				1041	1.4399	0.23		1120	0.002	0.0
WATERSHED CONDITIONS:										
58% pasture, Bermuda grass										
and native grass, good										
cover, moderately grazed;										
12% cotton; 14% fall										
planted oats; 15% row grain										
sorghum; 1% gravel roads.										
Cropland terraced, culti-										
vated on contour.										
				1046	0.8401	0.30		1125	0.004	0.0
				1058	0.7000	0.44		1130	0.006	0.0
				1108	1.5000	0.65		1135	0.016	0.0
				1112	0.1499	0.70		1140	0.025	0.0
				1116	0.4500	0.73		1145	0.037	0.0
				1131	0.1600	0.77		1150	0.050	0.0
				1136	0.2359	0.79		1155	0.061	0.0
				1156	0.0	0.79		1200	0.072	0.0
				1206	0.4800	0.87		1205	0.081	0.0
				1216	0.3008	0.92		1210	0.055	0.0
				1220	0.7500	0.97		1215	0.105	0.0
				1226	1.7000	1.14		1220	0.115	0.0
				1236	0.1200	1.16		1223	0.133	0.0
				1241	0.6000	1.21		1226	0.179	0.0
				1246	0.2359	1.23		1229	0.208	0.0
				1251	0.8401	1.30		1232	0.247	0.0
				1256	0.6000	1.35		1235	0.305	0.0
				1301	0.7200	1.41		1238	0.354	0.0001
				1306	1.0500	1.50		1241	0.351	0.0002
				1311	0.8401	1.57		1244	0.474	0.0003
				1316	0.5998	1.62		1246	0.600	0.0004
				1321	0.4801	1.66		1247	0.700	0.0004
				1326	0.1199	1.67		1248	0.856	0.0004
				1336	0.5400	1.76		1249	1.101	0.0005
				1346	0.3000	1.81		1250	1.302	0.0006

1972	SELECTED RUNOFF EVENT					RIESEL (WACC), TEXAS					WATERSHED 1				
ANTECEDENT CONDITIONS			RAINFALL			RUNCFF									
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)					
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)															
10-26	1356	0.0601	1.82	10-26	1252		1252	1.711	0.0008						
	1411	0.0	1.82		1254	2.159	0.0010								
	1416	0.4799	1.86		1256	2.837	0.0013								
	1431	0.0680	1.88		1258	3.740	0.0017								
	1436	0.4799	1.92		1300	4.340	0.0022								
	1456	0.2100	1.99		1302	4.910	0.0027								
					1304	5.451	0.0033								
					1306	6.199	0.0039								
					1308	6.791	0.0046								
					1310	6.972	0.0053								
				1315	7.104	0.0072									
				1320	7.509	0.0091									
				1325	5.154	0.0113									
				1330	10.924	0.0181									
				1335	12.611	0.0172									
				1340	14.798	0.0208									
				1345	16.809	0.0252									
				1350	19.013	0.0299									
				1355	21.633	0.0353									
				1400	23.038	0.0415									
				1405	24.625	0.0478									
				1410	24.683	0.0543									
				1415	25.867	0.0613									
				1420	25.627	0.0681									
				1430	24.354	0.0816									
				1440	22.708	0.0980									
				1500	19.013	0.1165									
				1520	16.331	0.1353									
				1540	14.246	0.1516									
				1600	12.785	0.1662									
				1620	12.155	0.1795									
				1640	11.444	0.1921									
				1700	10.146	0.2037									
				1730	8.822	0.2189									
				1800	6.868	0.2315									
				1830	5.580	0.2415									
				1900	4.675	0.2497									
				1930	3.822	0.2565									
				2000	3.053	0.2620									
				2030	2.465	0.2665									
				2100	2.050	0.2701									
				2130	1.656	0.2731									
				2200	1.434	0.2756									
				2230	1.302	0.2778									
				2300	1.141	0.2798									
				2330	0.951	0.2815									
				2400	0.899	0.2830									
10-27	30	0.769	0.2843												
	100	0.671	0.2855												
	130	0.612	0.2865												
	200	0.537	0.2874												
	230	0.487	0.2882												
	300	0.427	0.2889												
	330	0.386	0.2896												
	400	0.340	0.2902												
	430	0.258	0.2907												
	500	0.267	0.2912												
530	0.241	0.2916													
600	0.212	0.2920													
630	0.172	0.2923													
700	0.153	0.2926													
800	0.124	0.2930													
1000	0.094	0.2937													
1200	0.072	0.2942													
1400	0.054	0.2946													
1600	0.044	0.2949													
1800	0.035	0.2952													
2100	0.025	0.2955													
2400	0.023	0.2958													

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.



EVENT OF OCTOBER 26 - 27, 1972
RIESEL (WACO), TEXAS WATERSHED I

BIESSEL (WACO), TEXAS WATERSHED Y-2

LOCATION: Falls Co., Texas; 18 mi. SE Waco; Brazos River Basin. Lat. 31 deg. 28 min. 30 sec. N.; Long. 96 deg. 52 min. 46 sec. W.

AREA: 132.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										BIESSEL (WACO), TEXAS					WATERSHED Y-2		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1972	P	2.44	0.87	0.44	1.75	3.28	4.04	2.17	5.49	3.26	5.11	2.24	1.84	32.52			
	Q	0.689	0.068	0.001	0.0	0.021	0.003	0.114	0.023	0.0	0.484	0.075	0.336	1.817			
STA AV	P	2.12	2.64	2.50	3.90	4.26	3.35	1.81	2.18	2.69	2.76	2.56	2.59	33.74			
	Q	0.436	0.565	0.657	0.867	1.038	0.534	0.143	0.049	0.085	0.128	0.365	0.529	5.436			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge				Maximum Volume for Selected Time Interval											
		Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days							
		Date	Date	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.				
1972		1-3	0.133	10-26	0.126	10-26	0.236	10-26	0.355	10-26	0.430	10-26	0.435	10-27	0.435	10-26	0.512
MAXIMUMS FOR PERIOD OF RECORD																	
		5-1	4.070	5-1	3.110	5-1	5.470	5-1	7.080	5-1	7.280	5-1	7.460	4-30	9.640	4-29	10.600
		1944		1944		1944		1944		1944		1944		1944		1944	

NOTES: Watershed conditions: 159 cotton; 269 fall planted small grain; largely oats; 159 row grain sorghum; 355 pasture; 1% gravel and paved roads. Cropland terraced, contour cultivation, conservation treatment since 1942. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1, 1935. Precipitation data from Thiessen weighted average of rain gauges 65, 69B, 70, 75A, and 84A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY PRECIPITATION (inches)					BIESSEL (WACO), TEXAS WATERSHED Y-2									
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.23	0.14	0.11E	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.32	0.0		
2	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.15	0.0	0.0	0.0	0.0		
5	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.15E	0.0		
7	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.01E	0.33	0.0	1.30	0.0	0.0	0.0	0.0		
11	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.41E		
12	0.0	0.0	0.0	0.0	0.22	0.0	0.07E	0.28	0.05E	0.0	0.76	0.0		
13	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.04	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	1.24		
15	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	1.78	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.22	0.0	0.07E	0.0		
18	0.0	0.0	0.0	0.0	1.10	0.0	0.05E	0.0	0.0	0.0	0.23	0.05E		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0		
20	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.53	0.0	0.0	0.03E	0.0	0.0	0.31	0.18	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	1.01E	1.27	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.22	0.10E	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.44	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	1.57	0.0	0.0		
27	0.11E	0.0	0.21	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.65E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.74	0.55	0.0	0.0	0.0	0.0	0.02E	0.0	0.34	0.51	0.04E	0.06E		
30	0.0	0.0	0.0	0.0	0.0	3.11	0.0	0.0	0.0	0.11	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0		
TOTAL	2.44	0.87	0.44	1.75	3.28	4.04	2.17	5.49	3.26	5.11	2.24	1.84		
STA AV	2.12	2.64	2.50	3.90	4.26	3.35	1.81	2.18	2.69	2.76	2.56	2.59		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 65, 69B, 70, 75A, and 84A. Records began Jan. 1, 1935. STA AV based on 34 yr period. Estimate codes may indicate that non-significant event totals are included.

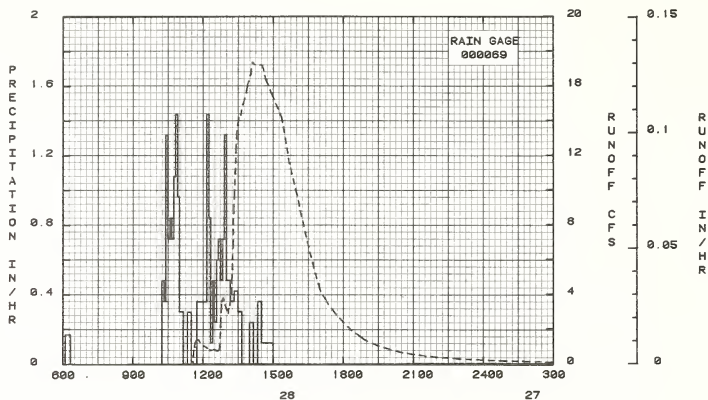
1972					EISEL (WACC), TEXAS								WATERSHED T-2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.160316. Records began Jan. 1, 1935. STA AV based on 34 yr period.

1972												EISEL (WACO), TEXAS												WATERSHED T-2											
ANTECEDENT CONDITIONS						RAINFALL						RUNOFF																							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		Date	Time	Rate	Acc.			Date	Time	Rate	Acc.			Date	Time	Rate	Acc.								
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(cfs)	(inches)			Mo-Day	of Day	(cfs)	(inches)			Mo-Day	of Day	(cfs)	(inches)								
EVENT CP OCTOBER 26 - 27, 1972																																			
RG 000069																RG 000069																			
10-26	0.0	0.0	10-26	606	0.0	0.0	10-26	1132	0.0	0.0		10-26	1132	0.0	0.0																				
				620	0.1715	0.04		1133	0.0	0.0			1133	0.0	0.0																				
				1015	0.0	0.0		1134	0.007	0.0			1134	0.007	0.0																				
				1020	0.4795	0.08		1135	0.142	0.0			1135	0.142	0.0																				
				1025	0.3600	0.11		1136	0.451	0.0			1136	0.451	0.0																				
WATERSHED CONDITIONS:																																			
35% pasture, Bermuda grass and																																			
native grass, good cover,																																			
moderately grazed; 15% cotton;																																			
25% fall planted oats; 15%																																			
row grain sorghum; 1% gravel																																			
roads. Cropland terraced,																																			
cultivated on contour.																																			
				1055	1.4401	0.62		1148	1.379	0.0018			1148	1.379	0.0018																				
				1100	0.5598	0.70		1152	1.265	0.0025			1152	1.265	0.0025																				
				1110	0.3000	0.75		1202	1.040	0.0040			1202	1.040	0.0040																				
				1120	0.0	0.75		1212	0.858	0.0052			1212	0.858	0.0052																				
				1130	0.3000	0.60		1217	0.767	0.0057			1217	0.767	0.0057																				
				1145	0.0	0.80		1222	0.753	0.0062			1222	0.753	0.0062																				
				1150	0.3600	0.63		1227	0.817	0.0067			1227	0.817	0.0067																				
				1200	0.3600	0.89		1232	0.823	0.0072			1232	0.823	0.0072																				
				1210	0.3600	0.55		1234	0.763	0.0074			1234	0.763	0.0074																				
				1215	1.4401	1.07		1236	0.763	0.0076			1236	0.763	0.0076																				
				1220	0.8399	1.14		1238	0.765	0.0078			1238	0.765	0.0078																				
				1225	0.1201	1.15		1240	0.775	0.0080			1240	0.775	0.0080																				
				1230	0.4799	1.19		1242	0.823	0.0082			1242	0.823	0.0082																				
				1235	0.2401	1.21		1244	1.167	0.0084			1244	1.167	0.0084																				
				1240	0.6000	1.26		1245	1.806	0.0086			1245	1.806	0.0086																				
				1245	0.7200	1.32		1246	2.666	0.0089			1246	2.666	0.0089																				
				1250	0.4799	1.36		1247	3.086	0.0052			1247	3.086	0.0052																				
				1255	0.7200	1.42		1248	3.425	0.0096			1248	3.425	0.0096																				
				1300	1.3200	1.53		1249	3.587	0.0101			1249	3.587	0.0101																				
				1310	0.4800	1.61		1250	3.735	0.0105			1250	3.735	0.0105																				

1972	SELECTED RUNOFF EVENT						BIESEL (WACO), TEXAS		WATERSEED T-2		
ANTECEDENT CONDITIONS			RAINFALL				RUNCFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)											
10-26			1320		0.3600	1.67	10-26	1252	3.801	0.0114	
			1330		0.4200	1.74		1254	3.663	0.0124	
			1340		0.3000	1.79		1257	3.356	0.0137	
			1400		0.0	1.79		1302	3.055	0.0157	
			1410		0.2400	1.83		1305	2.912	0.0168	
			1420		0.0	1.83		1307	3.157	0.0175	
			1430		0.3600	1.85		1309	3.396	0.0184	
			1440		0.1200	1.91		1311	3.770	0.0192	
			1500		0.1200	1.95		1313	4.086	0.0202	
								1315	5.135	0.0214	
								1317	6.663	0.0228	
								1319	8.678	0.0249	
								1321	10.036	0.0271	
								1323	10.958	0.0299	
								1325	12.358	0.0326	
								1327	13.430	0.0360	
							1332	14.154	0.0445		
							1337	14.332	0.0533		
							1342	14.939	0.0627		
							1347	15.322	0.0720		
							1352	15.760	0.0816		
							1357	16.307	0.0920		
							1402	16.713	0.1022		
							1407	17.367	0.1127		
							1412	17.229	0.1239		
							1432	17.177	0.1668		
							1442	16.307	0.1679		
							1502	15.225	0.2272		
							1522	14.194	0.2639		
							1542	11.504	0.2963		
							1602	9.661	0.3227		
							1622	7.582	0.3442		
							1642	5.777	0.3611		
							1702	4.168	0.3735		
							1722	3.410	0.3830		
							1742	2.833	0.3909		
							1802	2.355	0.3574		
							1822	1.858	0.4027		
							1842	1.580	0.4071		
							1902	1.281	0.4107		
							1932	1.005	0.4150		
							2002	0.753	0.4184		
							2032	0.631	0.4211		
							2102	0.518	0.4233		
							2132	0.430	0.4251		
							2202	0.360	0.4266		
							2302	0.262	0.4289		
							2400	0.198	0.4306		
							100	0.144	0.4319		
							200	0.100	0.4328		
							300	0.076	0.4335		
							400	0.057	0.4340		
							500	0.038	0.4344		
							700	0.023	0.4345		
							900	0.013	0.4352		
							1100	0.006	0.4353		
							1200	0.005	0.4353		
							1600	0.001	0.4354		
							2030	0.0	0.4354		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.



EVENT OF OCTOBER 26 - 27, 1972

BIESEL (WACO), TEXAS WATERSHED I-2

HISEL (WACO), TEXAS WATERSHED Y-6

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 26 sec. N.; Long. 96 deg. 53 min. 09 sec. W.

AREA: 16.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												HISEL (WACO), TEXAS WATERSHED Y-6											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972 P	2.39	0.82	0.43	1.75	3.30	4.12	2.17	5.53	3.15	5.12	2.23	1.84	32.83										
Q	0.417	0.024	0.0	0.0	0.0	0.0	0.0	0.302	0.0	0.488	0.169	0.234	1.635										
STA AV P	1.97	2.66	2.18	3.86	3.81	3.54	1.81	2.24	2.71	2.98	2.93	2.42	33.11										
Q	0.284	0.339	0.380	0.609	0.714	0.525	0.117	0.057	0.091	0.230	0.359	0.372	4.078										
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge												Maximum Volume for Selected Time Interval											
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1972	8-23	0.499	8-23	0.242	8-23	0.284	10-26	0.322	10-26	0.345	10-26	0.358	10-26	0.362	10-26	0.362	10-26	0.362	10-26	0.362	10-26	0.362	0.561
MAXIMUMS FOR PERIOD OF RECORD																							
	6-10	3.750	3-29	1.900	3-29	2.340	3-29	2.550	3-29	3.130	3-29	3.670	11-22	4.870	4-19	8.490							
	1941		1965		1965		1965		1965		1965		1965		1940		1957						

NOTES: Watershed conditions: 93% fall planted oats; 5% pasture; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see hydrologic data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69B and 75A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY PRECIPITATION (inches)						HISEL (WACC), TEXAS						WATERSHED Y-6										
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec										
1	0.22	0.14	0.11E	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.32	0.0										
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
3	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
4	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.16	0.0	0.0	0.0	0.0										
5	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
6	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.15E	0.0										
7	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.06E										
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
9	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.0	0.0	0.0										
10	0.0	0.0	0.0	0.0	0.01E	0.34	0.0	1.29	0.0	0.0	0.0	0.0										
11	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.43E										
12	0.0	0.0	0.0	0.0	0.21	0.0	0.08E	0.29	0.05E	0.0	0.75	0.0										
13	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.04	0.0										
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.23										
15	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.0										
16	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.0	1.70	0.0	0.0	0.0										
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.06E	0.0	0.0										
18	0.0	0.0	0.0	0.0	1.13	0.0	0.04E	0.0	0.0	0.0	0.24	0.04E										
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0										
20	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
21	0.0	0.0	0.0	0.52	0.0	0.0	0.03E	0.0	0.0	0.31	0.18	0.0										
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.34	0.0	1.89	0.0	0.0										
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.16	0.10E	0.0	0.0	0.0										
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.44	0.0										
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	1.58	0.0	0.0										
27	0.10E	0.0	0.20	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
28	0.63E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
29	0.75	0.51	0.0	0.0	0.0	0.0	0.02E	0.0	0.33	0.53	0.04E	0.07E										
30	0.0	0.0	0.0	0.0	0.0	3.14	0.0	0.0	0.0	0.11	0.0	0.0										
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0										
TOTAL	2.39	0.82	0.43	1.75	3.30	4.12	2.17	5.53	3.15	5.12	2.23	1.84										
STA AV	1.97	2.66	2.18	3.86	3.81	3.54	1.81	2.24	2.71	2.58	2.93	2.42										

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69B and 75A. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 29 yr period. Estimate codes may indicate that non-significant event totals are included.

1972 SEAN DAILY DISCHARGE (cfs)						BIESSEL (WACC), TEXAS				WATERSHED T-6			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.016	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.039	6.0	
2	0.008	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	
3	0.080	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	
4	0.021	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.006	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.030	0.003	
13	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.001	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.126	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.003	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.004	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.002	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.205	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.007	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.234	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.0	
28	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.114	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	
31	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.034	0.0	0.0	
MEAN	0.0092	0.0006	0.0	0.0	0.0	0.0	0.0	0.0067	0.0	0.0108	0.0035	0.0052	
INCREAS	0.417	0.024	0.0	0.0	0.0	0.0	0.0	0.302	0.0	0.488	0.169	0.234	
STA AV	0.284	0.339	0.380	0.609	0.714	0.525	0.117	0.057	0.091	0.230	0.359	0.372	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.460224. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 29 yr period.

1972 SELECTED RUNOFF EVENT						BIESSEL (WACC), TEXAS				WATERSHED T-6			
PRECEDENT CONDITIONS						RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF OCTOBER 26, 1972													
RG 00069B													
10-26	0.0	0.0	10-26	1000	0.0	0.0	10-26	1359	0.0	0.0			
				1020	0.3300	0.11		1401	0.0	0.0			
				1030	0.3600	0.17		1402	0.025	0.0000			
				1035	1.0800	0.26		1403	0.063	0.0000			
				1040	0.7202	0.32		1404	0.124	0.0002			
WATERSHED CONDITIONS:													
	93% fall planted oats; 5%			1045	0.7200	0.38		1405	0.170	0.0003			
	pasture, Bermuda grass, good			1050	0.5600	0.46		1406	0.244	0.0005			
	cover, moderately grazed;			1055	0.7200	0.52		1407	0.287	0.0007			
	2% gravel roads. Cropland			1100	1.9200	0.68		1409	0.350	0.0014			
	retained, cultivated on			1105	0.4799	0.72		1411	0.458	0.0022			
	contour.			1110	0.6000	0.77		1414	0.558	0.0038			
				1120	0.0	0.77		1419	0.622	0.0068			
				1130	0.3600	0.83		1424	0.713	0.0102			
				1150	0.0	0.83		1429	0.806	0.0140			
				1200	0.4600	0.91		1434	1.022	0.0187			
				1210	0.3000	0.96		1439	1.289	0.0245			
				1215	0.7200	1.02		1444	1.616	0.0318			
				1220	1.7559	1.17		1449	1.970	0.0411			
				1230	0.3600	1.23		1454	2.339	0.0515			
				1240	0.3000	1.28		1459	2.541	0.0641			
				1245	0.7200	1.34		1504	2.709	0.0778			
				1250	0.4801	1.38		1509	2.678	0.0512			
				1300	0.6600	1.45		1514	2.527	0.1042			
				1310	0.7200	1.61		1515	2.355	0.1171			
				1320	0.4200	1.68		1529	2.074	0.1394			
				1330	0.4200	1.75		1539	1.771	0.1550			
				1340	0.3600	1.81		1545	1.647	0.1765			
				1405	0.0	1.81		1559	1.470	0.1521			
				1415	0.2401	1.85		1609	1.342	0.2064			
				1425	0.0600	1.66		1619	1.289	0.2159			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.060843.

NOTES: To convert runoff in CFS to IN/8B, multiply by 0.060843.



LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 08 sec. N.; Long. 96 deg. 52 min. 49 sec. W.

AREA: 40.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												BIESSEL (WACO), TEXAS WATERSHED T-7											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972 P	2.40	0.77	0.42	1.90	3.36	4.73	2.14	5.40	3.05	5.05	2.09	1.76	33.33										
Q	0.820	0.019	0.0	0.0	0.0	0.100	0.115	0.0	0.0	0.205	0.0	0.258	1.558										
STA AV P	2.01	2.70	2.21	3.96	3.82	3.53	1.77	2.36	2.66	2.98	2.95	2.45	33.34										
Q	0.345	0.465	0.548	0.819	0.853	0.625	0.130	0.110	0.141	0.196	0.458	0.478	5.168										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge												Maximum Volume for Selected Time Interval											
1 Hour				2 Hours				6 Hours				12 Hours				1 Day				2 Days			
Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1-3	0.099	1-3	0.083	1-29	0.134	1-29	0.269	1-29	0.370	1-29	0.405	1-28	0.430	1-27	0.461								
MAXIMUMS FOR PERIOD OF RECORD																							
6-10	3.590	4-19	2.340	3-29	2.960	3-29	3.580	3-29	3.840	3-29	4.660	11-22	5.370	4-15	8.850								
1941		1957		1965		1965		1965		1965		1965		1965									

NOTES: Watershed conditions: 100% pasture, Berlandgrass, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges 85 and W-21. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972	DAILY PRECIPITATION (inches)												BIESSEL (WACC), TEXAS				WATERSHED T-7					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec										
1	0.32	0.15E	0.11E	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.28	0.0										
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
3	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
4	0.0	0.0	0.0	0.0	0.0	0.0	1.96	0.16	0.0	0.0	0.0	0.0										
5	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
6	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.11E	0.0										
7	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.06E										
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
9	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0										
10	0.0	0.0	0.0	0.0	0.0	0.39	0.0	1.32	0.0	0.0	0.0	0.0										
11	0.0	0.11E	0.0	0.0	0.02E	0.0	0.0	0.32	0.0	0.0	0.0	0.39E										
12	0.0	0.0	0.0	0.0	0.25	0.0	0.10E	0.46	0.05E	0.0	0.70	0.0										
13	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.05	0.0										
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.24										
15	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0										
16	0.0	0.0	0.0	0.0	0.77	0.0	0.0	1.54	0.0	0.0	0.0	0.0										
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.05E	0.0										
18	0.0	0.0	0.0	0.0	1.05	0.0	0.04E	0.0	0.0	0.0	0.25	0.05E										
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0										
20	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
21	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.04E	0.0	0.0	0.30	0.18	0.0									
22	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.97	0.0	0.0	1.87	0.0	0.0									
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.11	0.0	0.0	0.0	0.0									
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.45	0.0	0.0									
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	1.53	0.0	0.0	0.0									
27	0.10E	0.0	0.20	1.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
28	0.71E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
29	0.74	0.45	0.0	0.0	0.0	0.00E	0.0	0.32	0.53	0.02E	0.03E	0.0	0.0									
30	0.0	0.0	0.0	0.0	0.0	3.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0									
TOTAL	2.60	0.77	0.42	1.90	3.36	4.73	2.14	5.40	3.05	5.05	2.09	1.78										
STA AV	2.01	2.70	2.21	3.96	3.82	3.53	1.77	2.30	2.66	2.98	2.95	2.45										

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 89 and W-21. Records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 29 yr period. Estimate codes may indicate that non-significant event totals are included.

1972	SEAN DAILY DISCHARGE (cfs)					RIESEL (WACC), TEXAS					WATKESBEE Y-7		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.092	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.019	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.041	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.076	0.0 T	0.0	0.0	0.0	0.0	0.156	0.0	0.0	0.0	0.0	0.0	
5	0.003	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	
6	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.468	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.031	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.341	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	
28	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.667	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.046	0.0	0.0	0.0	0.0	0.169	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SEAN	0.0485	0.0011	0.0	0.0	0.0	0.0056	0.0062	0.0	0.0	0.0111	0.0	0.0161	
FWCWS	0.020	0.019	0.0	0.0	0.0	0.100	0.115	0.0	0.0	0.205	0.0	0.258	
STA AV	0.345	0.465	0.588	0.819	0.853	0.625	0.130	0.110	0.141	0.196	0.458	0.478	

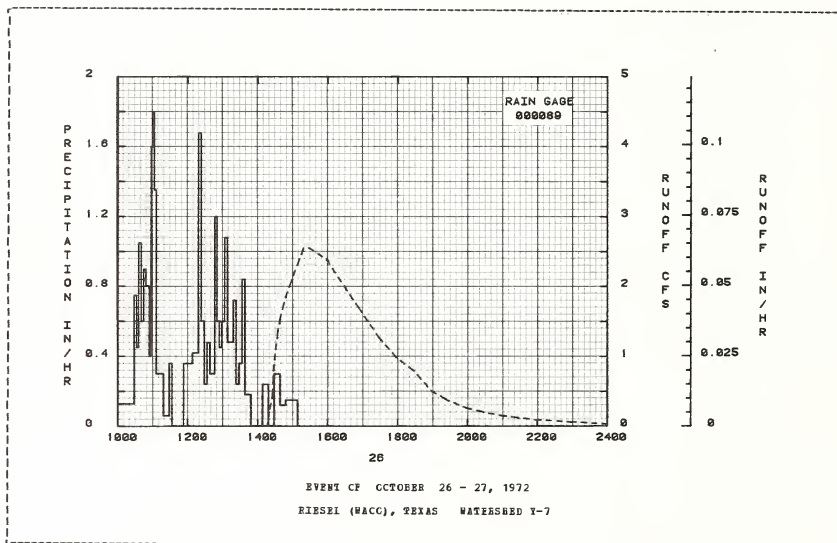
NOTES: To convert sean daily discharge in CFS to IN/DAY, multiply by 0.595041. Records began Jan. 1935; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 25 yr period.

1972	SELECTED SUBCFF EVENT					RIESEL (WACC), TEXAS					WATKESBEE Y-7		
SUBCFF EVENT CONDITIONS			NAINFALL			RUNOFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)			
EVENT OF OCTOBER 26 - 27, 1972													
EG 000089													
10-26	0.0	0.0	10-26	1000	0.0	0.0	10-26	1413	0.0	0.0			
				1028	0.1286	0.06		1414	0.0	0.0			
				1032	0.7500	0.11		1415	0.002	0.0			
				1036	0.4500	0.14		1416	0.004	0.0			
				1040	1.0501	0.21		1417	0.019	0.0			
WATKESBEE CONDITIONS:													
100% pasture, Bermudagrass, fair cover, moderately grazed, dormant.													
				1044	0.5999	0.25		1418	0.086	0.0			
				1048	0.9000	0.31		1419	0.137	0.0001			
				1054	0.6000	0.35		1420	0.204	0.0002			
				1057	0.4001	0.41		1421	0.250	0.0003			
				1100	1.6000	0.49		1423	0.330	0.0006			
				1102	1.8000	0.55		1425	0.400	0.0009			
				1106	1.3499	0.64		1426	0.526	0.0011			
				1118	0.3000	0.70		1427	0.722	0.0014			
				1128	0.0601	0.71		1428	0.882	0.0017			
				1133	0.3600	0.74		1430	1.029	0.0025			
				1153	0.0	0.74		1432	1.181	0.0034			
				1158	0.3600	0.77		1434	1.317	0.0045			
				1208	0.3600	0.83		1438	1.529	0.0068			
				1218	0.4200	0.90		1443	1.702	0.0101			
				1223	1.6800	1.04		1448	1.849	0.0137			
				1228	0.6000	1.09		1458	2.085	0.0219			
				1233	0.2399	1.11		1508	2.325	0.0311			
				1238	0.4601	1.15		1518	2.551	0.0410			
				1246	0.2999	1.19		1528	2.551	0.0516			
				1250	1.2000	1.27		1558	2.384	0.0622			
				1254	0.5599	1.31		1628	2.004	0.1094			
				1258	0.4502	1.34		1658	1.631	0.1319			
				1303	0.5599	1.39		1728	1.267	0.1499			
				1308	1.0801	1.48		1758	0.978	0.1638			
				1313	0.4799	1.52		1828	0.792	0.1748			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.024793.

1972 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED T-7							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)										
10-26			1318		0.4799	1.56	10-26	1858	0.459	0.1828
			1323		0.7201	1.62		1928	0.359	0.1881
			1328		0.2399	1.64		1958	0.256	0.1919
			1333		0.3600	1.67		2028	0.201	0.1987
			1338		0.8401	1.74		2058	0.154	0.1969
			1348		0.1800	1.77		2128	0.116	0.1986
			1408		0.0	1.77		2158	0.094	0.1999
			1418		0.2400	1.81		2258	0.060	0.2018
			1428		0.0	1.81		2400	0.034	0.2030
			1438		0.3000	1.86	10-27	100	0.027	0.2038
			1448		0.1200	1.88		200	0.015	0.2044
			1508		0.1500	1.93		300	0.012	0.2048
								400	0.008	0.2050
								600	0.003	0.2053
								800	0.001	0.2054
								1000	0.0	0.2054
								1200	0.0	0.2054

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.024753.



RIESEL (WACO), TEXAS WATERSHED Y-8

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 22 sec. N.; Long. 96 deg. 52 min. 54 sec. W.

AREA: 20.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												RIESEL (WACO), TEXAS WATERSHED Y-8											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972	P 2.46	0.61	0.80	1.76	3.41	4.84	2.16	5.69	3.12	5.07	2.16	1.60	33.30										
	Q 0.437	0.031	0.0	0.0	0.012	0.0	0.024	0.001	0.0	0.631	0.052	0.362	1.791										
STA AV	P 1.90	2.67	2.26	3.94	3.73	3.67	1.86	2.29	2.80	3.10	2.58	2.45	33.65										
	Q 0.314	0.366	0.466	0.724	0.764	0.571	0.165	0.070	0.122	0.154	0.405	0.427	4.565										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge												Maximum Volume for Selected Time Interval											
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.
1972	10-26	0.351	10-26	0.313	10-26	0.490	10-26	0.694	10-26	0.715	10-26	0.716	10-25	0.716	10-25	0.716	10-25	0.716	10-25	0.716	10-25	0.716	10-25
MAXIMUMS FOR PERIOD OF RECORD																							
	6-10	3.290	4-19	2.410	4-19	2.600	4-23	3.320	4-23	3.370	3-29	3.590	11-22	5.640	4-15	5.100							
	1941		1957		1957		1957		1957		1965		1940		1957								

NOTES: Watershed conditions: 95% row grain sorghum; 3% pasture; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42-11-5 (revised). Precipitation and runoff records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. Precipitation data obtained from rain gage 75A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972					DAILY PRECIPITATION (inches)					RIESEL (WACO), TEXAS					WATERSHED Y-8		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.23	0.13	0.12E	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.31	0.0					
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
3	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
4	0.0	0.0	0.0	0.0	0.0	0.0	2.01	0.16	0.0	0.0	0.0	0.0					
5	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
6	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.12E	0.0					
7	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E					
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
9	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	1.19	0.0	0.0	0.0	0.0					
10	0.0	0.0	0.0	0.0	0.02E	0.38	0.0	1.26	0.0	0.0	0.0	0.0					
11	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.35S					
12	0.0	0.0	0.0	0.0	0.21	0.0	0.09E	0.30	0.05E	0.0	0.75	0.0					
13	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.04	0.0					
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.24	0.0					
15	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0					
16	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	1.70	0.0	0.0	0.0					
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.05E	0.0					
18	0.0	0.0	0.0	0.0	1.13	0.0	0.04E	0.0	0.0	0.0	0.25	0.05E					
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0					
20	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
21	0.0	0.0	0.0	0.53	0.0	0.0	0.03E	0.0	0.0	0.31	0.18	0.0					
22	0.0	0.0	0.0	0.0	0.0	0.0	1.22	0.0	1.67	0.0	0.0	0.0					
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.23	0.10E	0.0	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.43	0.0					
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	1.99	0.0	0.0					
27	0.10E	0.0	0.18	1.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
28	0.68E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
29	0.74	0.50	0.0	0.0	0.0	0.0	0.01E	0.0	0.32	0.50	0.03E	0.05E					
30	0.0	0.0	0.0	0.0	0.0	3.39	0.0	0.0	0.0	0.33	0.0	0.0					
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
TOTAL	2.46	0.81	0.40	1.76	3.41	4.44	2.18	5.69	3.12	5.07	2.16	1.80					
STA AV	1.90	2.67	2.26	3.94	3.73	3.67	1.86	2.29	2.80	3.10	2.58	2.45					

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42-002-1. Precipitation values are from rain gage 75A. Records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 27 yr period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAR DAILY DISCHARGE (cfs)					BIRSEL (WACC), TEXAS					WATERSHEED T-8				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.005	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.055	0.0		
2	0.008	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0		
3	0.147	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.015	0.0 T	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0		
5	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.003	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.311		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.017	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.625	0.0	0.0		
27	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0		
28	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.121	0.002	0.0	0.0	0.0	0.0	0.0	0.031	0.0	0.0	0.0	0.0		
30	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0		
31	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.0	0.0		
MEAR	0.0123	0.0009	0.0	0.0	0.0003	0.0	0.0007	0.0	0.0	0.0234	0.0027	0.0102		
IBCCES	0.437	0.031	0.0	0.0	0.012	0.0	0.024	0.001	0.0	0.831	0.052	0.362		
STA AV	0.314	0.386	0.466	0.724	0.764	0.571	0.165	0.070	0.122	0.154	0.405	0.427		

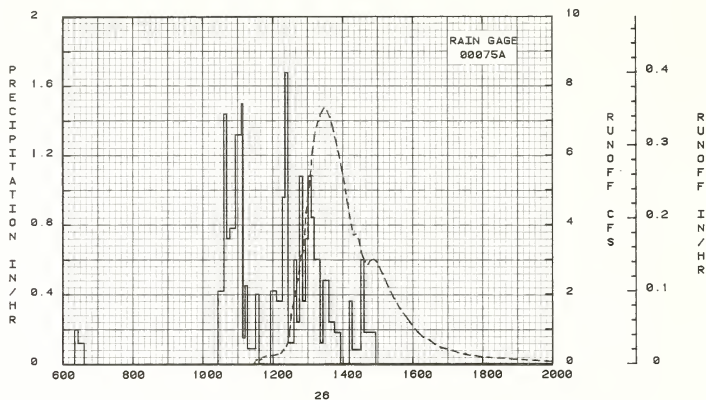
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.144310. Records began Mar. 1, 1935; station not in operation July 1943 to Jan. 1, 1949; past-year amounts not included in averages. STA AV based on 27 yr period.

1972 SELECTED EUDCFF EVENT					BIRSEL (WACC), TEXAS					WATERSHEED T-8				
ANTECEDENT CONDITIONS			RAINFALL					EUDCFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)				
EVENT OF OCTOBER 26, 1972														
EG 00075A			EG 00075A											
10-26	0.0	0.0	10-26	620	0.0	0.0	10-26	1126	0.0	0.0				
				626	0.1599	0.02	0.02		1127	0.001	0.0			
				636	0.1200	0.04	0.04		1128	0.015	0.0			
				1026	0.0	0.04	0.04		1129	0.058	0.0			
					1036	0.4200	0.11		1131	0.112	0.0001			
WATERSHEED CONDITIONS:														
95% row grain sorghum; 3%			1041	1.4399	0.23		1133	0.120	0.0003					
pasture, Bermudagrass, good			1046	0.7200	0.29		1138	0.120	0.0008					
cover, moderately grazed,			1056	0.7800	0.42		1141	0.143	0.0011					
dormant; 2% gravel roads.			1106	1.3200	0.64		1144	0.153	0.0015					
Cropland terraced, cultivated on contour.			1108	1.5001	0.65		1148	0.233	0.0022					
			1112	0.1499	0.70		1158	0.241	0.0041					
			1116	0.4500	0.73		1208	0.277	0.0062					
			1130	0.0857	0.75		1213	0.303	0.0073					
			1136	0.3599	0.75		1218	0.413	0.0087					
			1156	0.0	0.79		1223	0.504	0.0106					
			1206	0.4200	0.86		1226	0.619	0.0119					
			1216	0.3600	0.52		1228	0.836	0.0131					
			1221	0.9600	1.00		1230	1.059	0.0147					
			1226	1.6600	1.14		1232	1.442	0.0166					
			1236	0.1199	1.16		1234	1.654	0.0192					
			1241	0.6000	1.21		1238	1.951	0.0245					
			1246	0.2400	1.23		1241	2.295	0.0256					
			1251	1.0800	1.32		1243	2.444	0.0336					
			1256	0.3600	1.35		1245	2.661	0.0375					
			1301	0.7200	1.41		1248	3.059	0.0443					
			1306	1.0801	1.50		1253	3.260	0.0573					
			1311	0.6399	1.57		1255	3.735	0.0625					
			1316	0.6000	1.62		1257	4.370	0.0653					
			1321	0.6000	1.67		1300	4.781	0.0804					
			1326	0.1199	1.68		1303	5.117	0.0515					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.047660.

1972	SELECTED RUNOFF EVENT				DIESEL (WACC), TEXAS				WATFESBED T-8			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT CP OCTOBER 26, 1972 (CONTINUED)												
10-26	1336	0.4800	1.76	10-26	1308	6.108	0.1145					
	1346	0.2401	1.80		1313	6.676	0.1395					
	1356	0.1800	1.83		1318	7.003	0.1663					
	1411	0.0	1.83		1323	7.217	0.1954					
	1416	0.3600	1.86		1328	7.372	0.2239					
	1431	0.0800	1.88		1333	7.279	0.2526					
	1436	0.6000	1.93		1338	7.094	0.2820					
	1456	0.1800	1.95		1343	6.824	0.3052					
					1348	6.417	0.3351					
					1353	6.053	0.3606					
					1358	5.624	0.3834					
					1403	5.147	0.4045					
					1408	4.618	0.4245					
					1413	4.153	0.4417					
					1418	3.699	0.4571					
					1423	3.739	0.4723					
					1428	3.542	0.4865					
					1433	3.116	0.4555					
					1438	2.925	0.5119					
					1443	2.858	0.5232					
					1448	2.994	0.5346					
					1453	3.011	0.5469					
					1458	2.925	0.5585					
					1508	2.582	0.5806					
					1518	2.209	0.5593					
					1528	1.861	0.6156					
					1538	1.574	0.6294					
					1548	1.358	0.6405					
					1558	1.117	0.6508					
					1608	0.913	0.6585					
					1618	0.757	0.6654					
					1628	0.676	0.6711					
					1638	0.554	0.6760					
					1648	0.473	0.6800					
					1658	0.418	0.6836					
					1708	0.368	0.6867					
					1718	0.314	0.6894					
					1728	0.273	0.6518					
					1738	0.239	0.6939					
					1748	0.217	0.6957					
					1758	0.193	0.6573					
					1828	0.156	0.7015					
					1858	0.118	0.7048					
					1928	0.087	0.7072					
					1958	0.063	0.7050					
					2058	0.044	0.7116					
					2158	0.027	0.7133					
					2258	0.016	0.7143					
					2400	0.005	0.7149					

NOTES: To convert runoff in CFS to in/hr, multiply by 0.047680.



EVENT OF OCTOBER 26, 1972
RIESEL (WACC), TEXAS WATERSHED Y-8

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 31 sec. N.; Long. 96 deg. 53 min. 10 sec. W.

AREA: 18.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														BIESEL (WACO), TEXAS					WATERSHED Y-10	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual						
1972	P	2.41	0.86	0.46	1.74	3.21	3.84	2.18	5.36	3.30	5.12	2.28	1.87	32.63						
	Q	0.374	0.020	0.0	0.0	0.297	0.325	0.547	0.004	0.0	0.651	0.014	0.165	2.398						
STA AV	P	2.04	2.58	2.22	3.85	3.83	3.44	1.78	2.21	2.71	2.88	2.68	2.45	32.67						
	Q	0.399	0.400	0.528	0.837	0.697	0.602	0.190	0.086	0.176	0.222	0.434	0.460	5.032						
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																				
		Maximum Discharge				Maximum Volume for Selected Time Interval														
		Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days										
		Date	Date	Vol.	Vol.	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date					
1972		6-30	1.366	10-26	0.320	10-26	0.497	10-26	0.643	10-26	0.651	11-11	0.651	11-10	0.651	8-15	0.872			
MAXIMUMS FOR PERIOD OF RECORD																				
		4-19	3.730	4-19	2.900	4-19	3.480	3-29	4.130	3-29	4.270	3-29	4.620	4-23	5.340	4-15	10.570			
		1957		1957		1957		1957		1957		1957		1957		1957				

NOTES: Watershed conditions: 93% cotton; 4% pasture; 3% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Agric. Res. 1194, p. 42, 11-5 (Revised). Precipitation and runoff records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges 69 and 69B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972	DAILY PRECIPITATION (inches)												BIESEL (WACO), TEXAS WATERSHED Y-10	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.22	0.14	0.108	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	
2	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.01	0.15	0.0	0.0	0.0	0.0	
5	0.0	0.078	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.178	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.068	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	1.31	0.0	0.0	0.0	0.0	
11	0.0	0.128	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.458	
12	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.068	0.25	0.058	0.0	0.76	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0	1.24	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	1.82	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.058	0.0	
18	0.0	0.0	0.0	0.0	0.0	1.10	0.0	0.058	0.0	0.0	0.0	0.25	0.058	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.0	0.0	
20	0.0	0.0	0.148	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.038	0.0	0.0	0.31	0.18	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	1.34	0.0	1.50	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.18	0.108	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.45	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.088	1.56	0.0	0.0	
27	0.128	0.0	0.22	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.628	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.76	0.53	0.0	0.0	0.0	0.0	0.028	0.0	0.35	0.52	0.048	0.078	0.0	
30	0.0	0.0	0.0	0.0	0.0	2.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	
TOTAL	2.41	0.86	0.46	1.74	3.21	3.84	2.18	5.36	3.30	5.12	2.28	1.87		
STA AV	2.04	2.58	2.22	3.85	3.83	3.44	1.78	2.21	2.71	2.88	2.68	2.45		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 69 and 69B. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 30 yr period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS				WATERSHED T-10			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.021	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.207	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.001	0.0	0.0	0.0	0.0	0.0	0.428	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.115
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.232	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.509	0.0 T	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.053	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.010	0.0	0.0	0.0	0.0	0.254	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0094	0.0005	0.0	0.0	0.0075	0.0085	0.0138	0.0001	0.0	0.0164	0.0004	0.0042
INCRES	0.374	0.020	0.0	0.0	0.297	0.325	0.547	0.004	0.0	0.651	0.014	0.165
STA AV	0.399	0.400	0.528	0.837	0.697	0.602	0.190	0.086	0.176	0.222	0.434	0.460

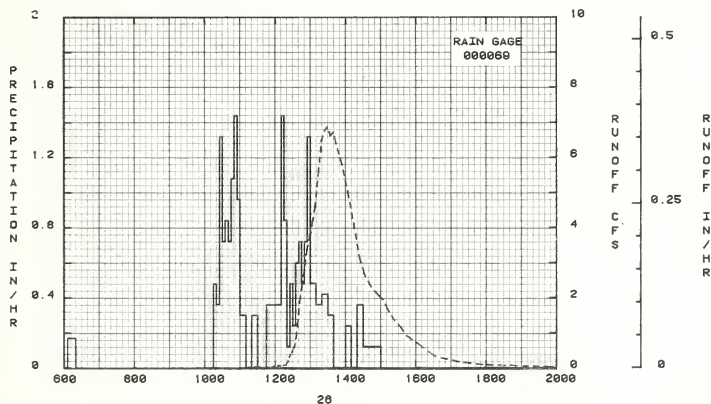
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.279655. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 30 yr period.

1972 SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS				WATERSHED T-10			
ANTECEDENT CONDITIONS					RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF OCTOBER 26 - 27, 1972												
EG 000069												
10-26	0.0	0.0	10-26	606	0.0	0.0	10-26	1109	0.0	0.0		
				620	0.1715	0.04		1111	0.0	0.0		
				1015	0.0	0.04		1113	0.0	0.0		
				1020	0.4799	0.08		1115	0.002	0.0		
				1025	0.3600	0.11		1117	0.006	0.0000		
WATERSHED CONDITIONS:												
53% cotton; 4% pasture, Bermudagrass, good cover, moderately grazed, dormant; 3% gravel roads. Cropland terraced, contour cultivation.												
				1030	1.3200	0.22		1119	0.008	0.0000		
				1035	0.7200	0.28		1124	0.015	0.0001		
				1040	0.8401	0.35		1134	0.015	0.0002		
				1045	0.7200	0.41		1144	0.010	0.0003		
				1050	1.0800	0.50		1149	0.012	0.0004		
				1055	1.4401	0.62		1154	0.034	0.0005		
				1100	0.9558	0.70		1159	0.050	0.0006		
				1110	0.3000	0.75		1204	0.061	0.0009		
				1120	0.0	0.75		1209	0.062	0.0012		
				1130	0.3000	0.80		1214	0.071	0.0014		
				1145	0.0	0.80		1218	0.050	0.0017		
				1150	0.3600	0.83		1220	0.139	0.0019		
				1200	0.3600	0.85		1222	0.201	0.0022		
				1210	0.3600	0.95		1224	0.303	0.0027		
				1215	1.4401	1.07		1226	0.381	0.0033		
				1220	0.8359	1.14		1228	0.428	0.0040		
				1225	0.1201	1.15		1230	0.495	0.0049		
				1230	0.4759	1.15		1232	0.565	0.0058		
				1235	0.2401	1.21		1234	0.665	0.0070		
				1240	0.6000	1.26		1236	0.882	0.0083		
				1245	0.7200	1.32		1239	1.368	0.0113		
				1250	0.4759	1.36		1241	1.650	0.0139		
				1255	0.7200	1.42		1243	2.071	0.0174		
				1300	1.3200	1.53		1245	2.252	0.0214		
				1310	0.4800	1.61		1247	2.459	0.0254		

NOTE: To convert runoff in CFS to IN/HR, multiply by 0.053319.

1972	SELECTED BOWCFF EVENT				BIESSEL (WACO), TEXAS WATERSHED Y-10					
ANTECEDENT CONDITIONS		RAINFALL			BOWCFF					
Date	Rainfall	Runoff	Date	Time	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)										
10-26										
			1320		0.3600	1.67	10-26	1249	2.629	0.0301
			1330		0.4200	1.74		1254	3.353	0.0432
			1340		0.3000	1.79		1259	3.759	0.0588
			1400		0.0	1.79		1304	4.153	0.0769
			1410		0.2400	1.83		1309	4.734	0.0563
			1420		0.0	1.83		1314	5.572	0.1189
			1430		0.3600	1.89		1319	6.474	0.1465
			1440		0.1200	1.91		1324	6.765	0.1754
			1500		0.1200	1.95		1329	6.883	0.2053
								1334	6.618	0.2362
								1339	6.735	0.2654
								1344	6.368	0.2941
								1354	5.783	0.3486
								1404	4.956	0.3969
								1414	4.110	0.4367
								1424	3.134	0.4691
								1434	2.558	0.4948
								1444	2.295	0.5162
								1454	2.058	0.5359
								1504	1.938	0.5540
								1514	1.585	0.5654
								1524	1.137	0.5824
								1534	1.162	0.5936
								1544	0.913	0.6027
								1554	0.799	0.6104
								1614	0.548	0.6223
								1634	0.314	0.6300
								1654	0.250	0.6350
								1714	0.172	0.6388
								1734	0.129	0.6415
								1754	0.092	0.6434
								1824	0.066	0.6455
								1854	0.053	0.6471
								1954	0.025	0.6492
								2054	0.010	0.6501
								2154	0.004	0.6505
								2400	0.001	0.6508
								200	0.0	0.6508
								400	0.0	0.6508

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.053319.



EVENT OF OCTOBER 26 - 27, 1972
BIESSEL (WACO), TEXAS WATERSHED Y-10

LOCATION: Falls County, Texas; 15 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 02 sec. N.; Long. 96 deg. 53 min. 04 sec. W.

AREA: 2.66 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												BIESSEL (WACO), TEXAS SW-11											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
P	2.61	0.77	0.42	1.90	3.37	4.74	2.14	5.42	3.10	5.05	2.05	1.77	33.36										
Q	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.234	0.000	0.515	0.550										
STA A P	1.59	2.61	2.13	3.37	3.38	3.59	2.44	2.27	2.74	3.50	3.19	3.05	33.90										
Q	0.179	0.362	0.372	0.117	0.165	0.625	0.076	0.007	0.250	0.323	0.519	0.754	4.140										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge												Maximum Volume for Selected Time Interval											
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1972	10-26	0.168	12-14	0.150	12-14	0.263	12-14	0.470	12-14	0.512	12-14	0.515	12-13	0.515	12-7	0.515	12-7	0.515	12-7	0.515	12-7	0.515	0.515
MAXIMUMS FOR PERIOD OF RECORD																							
	10-31	6.670	11-22	2.060	11-22	2.260	11-22	2.580	11-22	2.820	11-22	3.590	11-22	5.900	11-21	6.220	11-21	6.220	11-21	6.220	11-21	6.220	6.220
	1940		1940		1940		1940		1940		1940		1940		1940		1940		1940		1940		1940

NOTES: Watershed conditions: 100% winter growing harding grass, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA misc. Pub. 1370, p. 42.023-5. Precipitation and runoff records began March 1938; discontinued July 1943; reestablished July 1, 1969, part-year amounts are included in station averages. Precipitation data from rain gage 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972						BIESSEL (WACC), TEXAS SW-11											
DAILY PRECIPITATION (inches)																	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.32	0.15	0.11E	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.28	0.0					
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
3	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
4	0.0	0.0	0.0	0.0	0.0	0.0	1.96	0.16	0.0	0.0	0.0	0.0					
5	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
6	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.11	0.0					
7	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
9	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	1.28	0.0	0.0	0.0	0.0					
10	0.0	0.0	0.0	0.0	0.0	0.39	0.0	1.32	0.0	0.0	0.0	0.0					
11	0.0	0.11E	0.0	0.0	0.02E	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.39E				
12	0.0	0.0	0.0	0.0	0.25	0.0	0.10E	0.46	0.05E	0.0	0.70	0.0					
13	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.05	0.0					
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.24					
15	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0					
16	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0	1.54	0.0	0.0	0.0					
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.05E	0.0					
18	0.0	0.0	0.0	0.0	1.10	0.0	0.04E	0.0	0.0	0.0	0.25	0.05E					
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0					
20	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
21	0.0	0.0	0.0	0.54	0.0	0.0	0.04E	0.0	0.0	0.30	0.18	0.0					
22	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.87	0.0	0.0					
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.11	0.0	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.45	0.0					
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	1.53	0.0	0.0					
27	0.10E	0.0	0.20	1.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
28	0.72E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
29	0.74	0.45	0.0	0.0	0.0	0.0	0.0E	0.32	0.53	0.02E	0.03E	0.0					
30	0.0	0.0	0.0	0.0	0.0	3.45	0.0	0.0	0.0	0.0	0.0	0.0					
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0					
TOTAL	2.61	0.77	0.42	1.90	3.37	4.74	2.14	5.42	3.10	5.05	2.05	1.77					
STA A V	1.59	2.61	2.13	3.37	3.38	3.59	2.44	2.27	2.74	3.50	3.19	3.09					

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 89. Records began March 1938; discontinued July 1943; reestablished July 1, 1969. Part-year amounts are included in averages. STA A V based on 10 yr record period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs)												BIESEL (WACC), TEXAS SW-11			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MEAN	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0008	0.0		0.0019	
INCHES	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.234	0.000		0.515	
STA AV	0.179	0.362	0.372	0.117	0.165	0.625	0.076	0.007	0.250	0.323	0.915	0.754			

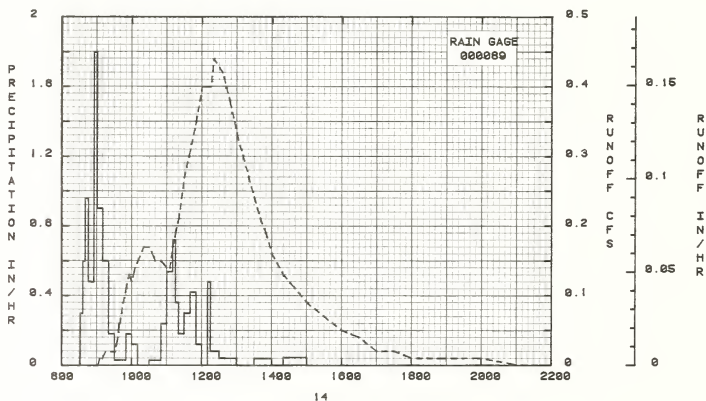
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 8.547950. Records began March 1938; discontinued July 1943; reestablished July 1, 1969, part-year amounts are included in averages. STA AV based on 10 yr record period.

1972 SELECTED RUNOFF EVENT						BIESEL (WACC), TEXAS SW-11					
PRECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Time	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)		(inches)
EVENT OF DECEMBER 14 - 15, 1972											
12-14	EG 000089			832	0.0	0.0	12-14	845	0.0	0.0	
	0.0	0.0	12-14	836	0.3001	0.02		850	0.001	0.0000	
				840	0.5999	0.06		855	0.002	0.0001	
				845	0.5600	0.14		859	0.002	0.0001	
				850	0.4801	0.18		902	0.005	0.0002	
WATERSHED CONDITIONS:											
100% winter growing harding											
grass, sparse cover.											
				855	0.4799	0.22		905	0.006	0.0003	
				900	1.7999	0.37		910	0.010	0.0005	
				910	0.5001	0.52		915	0.015	0.0005	
				920	0.5999	0.62		930	0.017	0.0024	
				930	0.1601	0.65		932	0.023	0.0026	
				550	0.0300	0.66		934	0.032	0.0030	
				1000	0.1800	0.69		936	0.043	0.0034	
				1010	0.1200	0.71		938	0.056	0.0041	
				1030	0.0	0.71		940	0.065	0.0048	
				1050	0.0300	0.72		945	0.086	0.0072	
				1100	0.2401	0.76		950	0.106	0.0102	
				1110	0.5400	0.85		955	0.126	0.0137	
				1115	0.7200	0.51		1000	0.115	0.0176	
				1120	0.3600	0.94		1005	0.141	0.0216	
				1130	0.1800	0.97		1010	0.152	0.0261	
				1140	0.3000	1.02		1020	0.168	0.0361	
				1150	0.4200	1.09		1030	0.168	0.0466	
				1200	0.1200	1.11		1040	0.155	0.0565	
				1210	0.0	1.11		1050	0.147	0.0660	
				1215	0.4601	1.15		1100	0.141	0.0750	
				1230	0.0600	1.17		1105	0.141	0.0793	
				1300	0.0400	1.19		1110	0.173	0.0841	
				1330	0.0	1.19		1115	0.155	0.0900	
				1400	0.0400	1.21		1120	0.212	0.0962	
				1420	0.0	1.21		1125	0.241	0.1031	

NOTES: To convert runoff in CFS to IN/HR, multiply by .372833.

1972 SELECTED RUNOFF EVENT						RIESEL (WACO), TEXAS SW-11					
ANTICIPED CONDITIONS			RAINFALL			RUSCFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF DECEMBER 14 - 15, 1972 (CONTINUED)											
12-14			1500		0.0450	1.24	12-14	1130	0.266	0.1113	
								1140	0.309	0.1289	
								1150	0.346	0.1494	
								1200	0.403	0.1728	
								1215	0.403	0.2164	
								1220	0.436	0.2232	
								1235	0.416	0.2630	
								1250	0.366	0.2995	
								1300	0.332	0.3214	
								1310	0.301	0.3408	
								1320	0.271	0.3587	
								1330	0.235	0.3745	
								1340	0.208	0.3881	
								1350	0.185	0.4004	
								1400	0.162	0.4112	
								1420	0.131	0.4254	
								1440	0.105	0.4440	
								1500	0.090	0.4562	
								1530	0.067	0.4708	
								1600	0.051	0.4818	
								1630	0.035	0.4899	
								1700	0.023	0.4953	
								1730	0.019	0.4992	
								1800	0.014	0.5023	
								1900	0.010	0.5067	
								2000	0.007	0.5099	
								2100	0.005	0.5121	
								2200	0.002	0.5134	
								2400	0.001	0.5146	
								12-15	230	0.0	0.5150

NOTES: To convert runoff in CFS to IN/HR, multiply by .372833.



EVENT OF DECEMBER 14 - 15, 1972
RIESEL (WACO), TEXAS SW-11

LOCATION: McLennan Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 48 sec. N.; Long. 96 deg. 52 min. 59 sec. W.

AREA: 2.97 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED SW-12	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1972 P	2.46	1.02	0.46	1.70	3.21	3.47	2.12	5.24	3.32	5.23	2.31	1.94	32.48	
Q	1.195	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.152	1.345	
STA AV P	2.03	2.66	2.18	3.87	3.79	3.51	1.82	2.17	2.70	2.88	2.88	2.41	32.50	
Q	0.431	0.600	0.570	0.630	0.551	0.362	0.087	0.018	0.034	0.010	0.212	0.403	3.910	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
Maximum Discharge														
Date	Date	1 Hour	Date	2 Hours	Date	6 Hours	Date	12 Hours	Date	1 Day	Date	2 Days	Date	8 Days
Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	1-3	0.725	1-3	0.337	1-3	0.383	1-29	0.452	1-29	0.509	1-28	0.510	1-1	0.537
													1-1	0.674
MAXIMUMS FOR PERIOD OF RECORD														
	3-29	4.000	3-29	3.070	3-29	3.830	3-29	4.620	3-29	4.800	3-29	5.340	3-25	5.390
	1965		1965		1965		1965		1965		1965		1965	1957

NOTES: Watershed conditions: 100% native grass meadow mowed annually for hay. For map of watershed, see hydrologic data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.24-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. Precipitation data obtained from rain gage 70. For long-time precipitation records, see National Weather Service records at Waco, Texas.

DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED SW-12	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.25	0.13	0.10E	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.33	0.0		
2	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.14	0.0	0.0	0.0	0.0		
5	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.16	0.0		
7	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.08E
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
9	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.0		0.0
10	0.0	0.0	0.0	0.0	0.01E	0.18	0.0	1.31	0.0	0.0	0.0	0.0		0.0
11	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0		0.475
12	0.0	0.0	0.0	0.0	0.22	0.0	0.02E	0.25	0.07E	0.0	0.78	0.0		0.0
13	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.05	0.0		0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	1-24		0.0
15	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0		0.0
16	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.03E	0.0		0.0
18	0.0	0.0	0.0	0.0	1.06	0.0	0.06E	0.0	0.0	0.0	0.28	0.06E		0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0		0.0
20	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
21	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.31	0.17	0.0		0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	1.25	0.0	1.58	0.0	0.0		0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.10E	0.0	0.0	0.0	0.0		0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.47	0.0		0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	1.59	0.0	0.0		0.0
27	0.14	0.0	0.23	1.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
28	0.62S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
29	0.71	0.70	0.0	0.0	0.0	0.0	0.02E	0.0	0.34	0.51	0.04E	0.05E		0.0
30	0.0	0.0	0.0	0.0	0.0	2.81	0.0	0.0	0.0	0.0	0.0	0.0		0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0		0.0
TOTAL	2.46	1.02	0.46	1.70	3.21	3.47	2.12	5.24	3.32	5.23	2.31	1.94		
STA AV	2.03	2.66	2.18	3.87	3.79	3.51	1.82	2.17	2.70	2.88	2.88	2.41		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 70. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV based on 30 yr period. Estimate codes may indicate that non-significant event totals are included.

1972	MEAN DAILY DISCHARGE (cfs)					EISEL (WACO), TEXAS					WATERSHED SW-12			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.059	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.064	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0048	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0006	
INCHES	1.195	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.152	
STA AV	0.431	0.600	0.570	0.630	0.551	0.362	0.087	0.018	0.034	0.010	0.212	0.403		

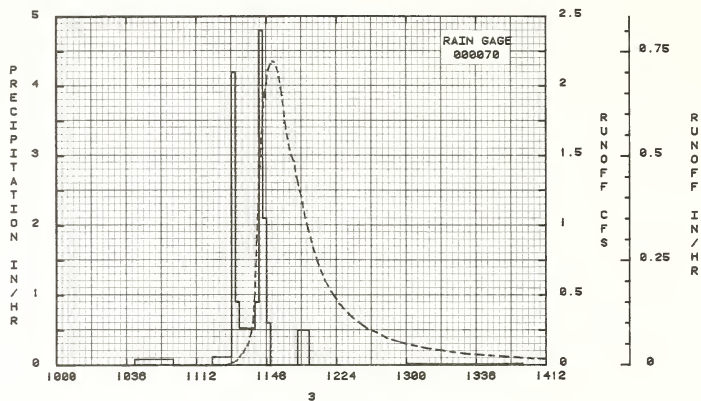
NOTES: To convert mean daily discharge in CES to IN/DAY, multiply by 8.014025. Records began Jan. 1, 1936; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV based on 30 yr period.

1972	SELECTED RUNOFF EVENT					EISEL (WACO), TEXAS					WATERSHED SW-12			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF							
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)				
EVENT OF JANUARY 3, 1972														
RG 000070														
1- 3	0.0	0.004	1- 3	1040	0.0	0.0	1- 3	1100	0.001	0.0				
				1100	0.0900	0.03		1125	0.001	0.0001				
				1120	0.0	0.03		1127	0.003	0.0001				
				1130	0.1200	0.05		1129	0.010	0.0002				
				1132	4.2010	0.15		1130	0.017	0.0003				
WATERSHED CONDITIONS:														
100% native grass meadow, 12 to 14 inches, dormant.														
				1134	0.8598	0.22		1131	0.023	0.0004				
				1142	0.5250	0.29		1132	0.033	0.0006				
				1144	0.9002	0.32		1133	0.043	0.0008				
				1146	4.1001	0.48		1134	0.056	0.0011				
				1148	2.1005	0.55		1135	0.078	0.0015				
				1150	0.5999	0.57		1136	0.092	0.0020				
				1204	0.0	0.57		1137	0.115	0.0026				
				1210	0.5000	0.62		1138	0.142	0.0033				
				1300	0.0	0.62		1139	0.172	0.0042				
				1400	0.0200	0.64		1140	0.225	0.0053				
								1141	0.306	0.0068				
								1142	0.525	0.0091				
								1143	0.933	0.0132				
								1144	1.230	0.0192				
								1145	1.553	0.0269				
								1146	1.771	0.0361				
								1147	1.938	0.0464				
								1148	2.037	0.0575				
								1149	2.119	0.0691				
								1150	2.156	0.0810				
								1151	2.182	0.0531				
								1152	2.168	0.1052				
								1154	2.059	0.1290				
								1156	1.925	0.1514				
								1158	1.688	0.1715				

NOTES: To convert runoff in CES to IN/HR, multiply by 0.333516.

1972 SELECTED RUNOFF EVENT			BIESL (WACC), TEXAS			WATERSEED SW-12		
ANTECEDENT CONDITIONS		Date Mo-Day	RAINFALL			RUNOFF		
Date	Rainfall		Time	Intensity	Acc.	Time	Date	Acc.
Mo-Day	(inches)		of Day	(in/hr)	(inches)	of Day	(cfs)	(inches)
EVENT OF JANUARY 3, 1972 (CONTINUED)								
			1- 3			1200	1.540	0.1895
						1202	1.463	0.2062
						1204	1.319	0.2217
						1206	1.197	0.2357
						1208	1.050	0.2482
						1210	0.952	0.2593
						1212	0.837	0.2653
						1214	0.745	0.2781
						1216	0.675	0.2860
						1218	0.610	0.2932
						1220	0.555	0.2997
						1222	0.510	0.3056
						1224	0.471	0.3111
						1226	0.434	0.3161
						1228	0.397	0.3207
						1230	0.366	0.3249
						1233	0.332	0.3307
						1236	0.296	0.3359
						1240	0.260	0.3421
						1245	0.225	0.3486
						1250	0.186	0.3545
						1255	0.165	0.3594
						1300	0.146	0.3637
						1310	0.117	0.3710
						1320	0.097	0.3770
						1330	0.083	0.3820
						1340	0.070	0.3863
						1350	0.060	0.3899
						1400	0.054	0.3931
						1430	0.039	0.4005
						1500	0.027	0.4064
						1600	0.018	0.4135
						1700	0.013	0.4191
						1710	0.013	0.4198
						1720	0.016	0.4206
						1730	0.021	0.4216
						1800	0.032	0.4260
						1810	0.038	0.4275
						1820	0.045	0.4303
						1830	0.054	0.4332
						1850	0.089	0.4389
						1910	0.040	0.4439
						1930	0.030	0.4478
						2000	0.022	0.4521
						2100	0.012	0.4578
						2200	0.007	0.4610
						2300	0.010	0.4638
						2400	0.010	0.4671

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333916.



EVENT OF JANUARY 3, 1972
BIESEL (WACO), TEXAS WATERSHED SW-12

BIESEL (WACO), TEXAS WATERSHED SW-17

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 45 sec. N.; Long. 96 deg. 03 min. 14 sec. W.

AREA: 2.99 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														BIESEL (WACO), TEXAS				WATERSHED SW-17											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1972	F	2.39	0.67	0.46	1.73	3.02	4.50	2.01	4.71	2.70	5.04	2.13	1.62	31.16															
	Q	0.682	0.0	0.0	0.0	0.0	0.009	0.026	0.0	0.0	0.245	0.017	0.555	1.775															
STA AV	F	1.92	2.70	2.21	4.01	3.72	3.46	1.85	2.34	2.78	3.09	2.97	2.45	33.51															
	Q	0.406	0.618	0.670	0.527	0.761	0.656	0.199	0.093	0.164	0.178	0.507	0.557	5.613															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
Maximum Discharge										Maximum Volume for Selected Time Interval																			
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		6 Days													
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1972	12-14	0.262	12-14	0.228	12-14	0.336	12-14	0.531	12-14	0.572	12-14	0.576	1-28	0.648	1-25	0.649													
MAXIMUMS FOR PERIOD OF RECORD																													
10-31		7.060		4-19		2.540		4-19		2.960		4-23		3.310		3-29		3-29		4.250		11-22		5.370		4-15		9.420	
1940		1957		1957		1957		1957		1957		1965		1965		1965		1965		1940		1940		1957		1957			

NOTES: Watershed conditions: 100% Bermuda grass pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.28-5. Precipitation and runoff record began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. Precipitation data obtained from rain gage W-2. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY PRECIPITATION (inches)						BIESEL (WACO), TEXAS WATERSHED SW-17							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.30	0.14	0.10E	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.32	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	1.96	0.17	0.0	0.0	0.0	0.0	
5	0.0	0.068	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	
7	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.03B	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.35	0.0	1.21	0.0	0.0	0.0	0.0	
11	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.40E	
12	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.57	0.02B	0.0	0.0	0.74	
13	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.26	
15	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.84	0.02B	0.0	0.0	1.34	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.04E	0.0	
18	0.0	0.0	0.0	0.0	0.63	0.0	0.02E	0.0	0.0	0.0	0.25	0.06E	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08B	0.0	0.0	
20	0.0	0.0	0.11B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.52	0.0	0.0	0.03E	0.0	0.0	0.29	0.18	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.92	0.0	1.85	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.15	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.42	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06B	1.95	0.0	0.0	
27	0.10B	0.0	0.25	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.62S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.67	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.54	0.02E	0.03E	
30	0.0	0.0	0.0	0.0	0.0	3.55	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	
TOTAL	2.39	0.67	0.46	1.73	3.02	4.50	2.01	4.71	2.70	5.04	2.13	1.82	
STA AV	1.92	2.70	2.21	4.01	3.72	3.46	1.85	2.34	2.78	3.09	2.57	2.45	

NOTES: For daily air temperatures in the vicinity, see table for watershed C, p. 42.002-1. Precipitation values are from rain gage W-2. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 28 yr period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs)						RIESEL (WACO), TEXAS			WATERSHED SW-17		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.002	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.001
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.072
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.001	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0036	0.0	0.0	0.0	0.0	0.0	0.0001	0.0	0.0	0.0016	0.0001
INCHES	0.002	0.0	0.0	0.0	0.0	0.009	0.026	0.0	0.0	0.285	0.017
STA AV	0.406	0.618	0.670	0.927	0.761	0.696	0.159	0.093	0.164	0.178	0.507

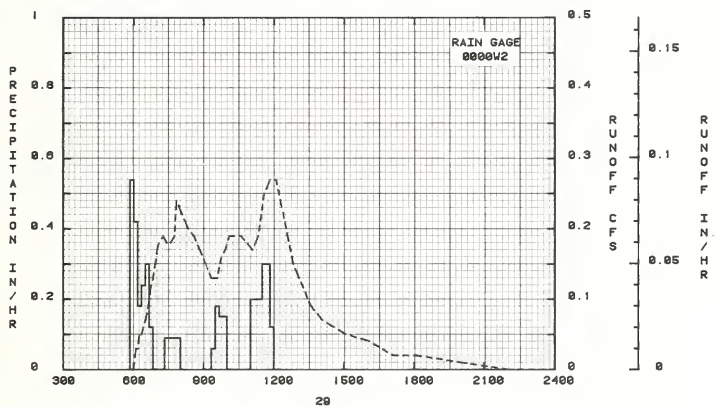
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.966419. Records began Feb. 1, 1938; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 28 yr period.

1972 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED SW-17					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JANUARY 25, 1972											
EG 0000W2			EG 0000W2			1-25			555	0.0	0.0
1-25	0.0	0.0	1-25	550	0.0	0.0	558	0.001	0.0	0.0	
				600	0.5397	0.09	600	0.004	0.0	0.0	
				610	0.4204	0.16	600	0.004	0.0	0.0	
				620	0.1799	0.19	602	0.007	0.0001	0.0	
				630	0.2359	0.23	604	0.016	0.0002	0.0	
WATERSHED CONDITIONS: 100% bermudagrass pasture, 4 to 6 inches high, dormant.				640	0.3003	0.28	606	0.025	0.0004	0.0	
				650	0.1159	0.30	609	0.034	0.0009	0.0	
				720	0.0	0.30	611	0.034	0.0013	0.0	
				740	0.0500	0.33	615	0.046	0.0022	0.0	
				800	0.0900	0.36	620	0.048	0.0035	0.0	
				920	0.0	0.36	625	0.056	0.0050	0.0	
				930	0.0600	0.37	630	0.067	0.0067	0.0	
				940	0.1802	0.40	635	0.077	0.0087	0.0	
				1000	0.1459	0.45	640	0.096	0.0111	0.0	
				1100	0.0	0.45	645	0.124	0.0141	0.0	
				1130	0.2000	0.55	650	0.133	0.0176	0.0	
				1140	0.3003	0.60	655	0.154	0.0216	0.0	
				1150	0.2999	0.65	700	0.170	0.0261	0.0	
				1200	0.1159	0.67	705	0.179	0.0309	0.0	
							715	0.151	0.0411	0.0	
							725	0.164	0.0515	0.0	
							735	0.178	0.0615	0.0	
							745	0.153	0.0718	0.0	
							750	0.235	0.0777	0.0	
							805	0.220	0.0566	0.0	
							820	0.200	0.1140	0.0	
							835	0.185	0.1300	0.0	
							850	0.166	0.1446	0.0	
							905	0.150	0.1577	0.0	
							920	0.129	0.1693	0.0	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.

1972 SELECTED RUNOFF EVENT			BIESEL (WACC), TEXAS WATERSEED SW-17									
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Date (cfs)	Acc. (inches)		
EVENT OF JANUARY 29, 1972 (CONTINUED)												
							1-29	935	0.129	0.1600		
								945	0.156	0.1679		
								955	0.170	0.1569		
								1005	0.151	0.2069		
								1035	0.186	0.2362		
								1105	0.167	0.2675		
								1120	0.168	0.2822		
								1135	0.247	0.3002		
								1150	0.266	0.3215		
								1205	0.266	0.3436		
								1220	0.227	0.3640		
								1235	0.185	0.3812		
								1250	0.154	0.3954		
								1305	0.126	0.4070		
								1335	0.092	0.4251		
								1405	0.071	0.4386		
								1435	0.058	0.4493		
								1505	0.045	0.4582		
								1605	0.035	0.4721		
								1705	0.025	0.4821		
								1805	0.018	0.4892		
								2000	0.008	0.4975		
								2200	0.005	0.5018		
								2400	0.003	0.5045		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.



EVENT OF JANUARY 29, 1972
BIESEL (WACO), TEXAS WATERSEED SW-17

BIESSEL (WACO), TEXAS WATERSHED SW-15

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 35 sec. N.; Long. 96 deg. 53 min. 49 sec. W.

AREA: 3.25 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						BIESSEL (WACO), TEXAS				WATERSHED SW-15				
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972	P	2.61	0.83	0.50	1.87	2.89	3.20	2.11	4.59	4.09	5.41	2.37	1.95	32.42
	Q	0.946	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.133	0.008	0.406	1.456
STA AV	P	1.31	1.07	0.46	2.51	2.62	2.06	6.58	2.65	4.06	4.66	2.66	3.14	34.17
	Q	0.473	0.0	0.0	0.0	0.0	0.0	0.836	0.025	0.601	0.074	0.602	1.143	3.355
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days
Date Rate		Date Rate	Vol.	Date Rate	Vol.	Date Rate	Vol.	Date Rate	Vol.	Date Rate	Vol.	Date Rate	Vol.	Date Rate
1972	1- 3	0.450	1- 3	0.278	1- 3	0.337	12-14	0.351	1-29	0.459	1-29	0.467	1-28	0.505
MAXIMUMS FOR PERIOD OF RECORD														
11-17		2.938	11-17		1.727	11-17		2.265	11-17		2.376	11-17		2.396
1971			1971			1971			1971			1971		
12- 8		2.483	12- 8		2.483	12- 8		2.483	12- 8		2.483	12- 8		2.483
1971			1971			1971			1971			1971		

NOTES: Watershed conditions: 100% rangeland grasses with moderate infestation of honey mesquite, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, USDA Misc. Pub. 1380, p. 42.035-4. Precipitation and runoff records began September 1, 1970, part year records are included in the STA AV. Precipitation data obtained from rain gage 56-R. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972	DAILY PRECIPITATION (inches)					BIESSEL (WACO), TEXAS WATERSHED SW-15							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.18	0.14	0.06E	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.31	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	2.05	0.13	0.0	0.0	0.0	0.0	
5	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	
7	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.19	0.0	1.58	0.0	0.0	0.0	0.0	
11	0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.59E	
12	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.04E	0.0	0.0	0.83	0.0	
13	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.05	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.17	
15	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	2.39	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.04	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.56	0.0	0.01E	0.0	0.0	0.0	0.31	0.05E	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	
21	0.0	0.0	0.0	0.52	0.0	0.0	0.0E	0.0	0.0	0.30	0.20	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	1.88	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.18	0.08E	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.49	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.09E	2.38	0.0	0.0	0.0	
27	0.10E	0.0	0.27	1.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.79E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.84	0.48	0.0	0.0	0.0	0.10E	0.05E	0.0	0.47	0.45	0.04E	0.07E	
30	0.0	0.0	0.0	0.0	0.0	2.66	0.0	0.0	0.0	0.01E	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	
TOTAL	2.61	0.83	0.50	1.87	2.89	3.20	2.11	4.59	4.09	5.41	2.37	1.95	
STA AV	1.31	1.07	0.46	2.51	2.62	2.06	6.58	2.65	4.06	4.66	2.66	3.14	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 56R. Records began September 1, 1970. STA AV based on 3 yr (1970-72) record period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs) EISEL (WACO), TEXAS WATERSEED SW-19												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.054	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.064	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0006	0.0	0.0018
INCHES	0.946	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.133	0.008	0.406
STA AV	0.473	0.0	0.0	0.0	0.0	0.0	0.836	0.025	0.001	0.074	0.602	1.143

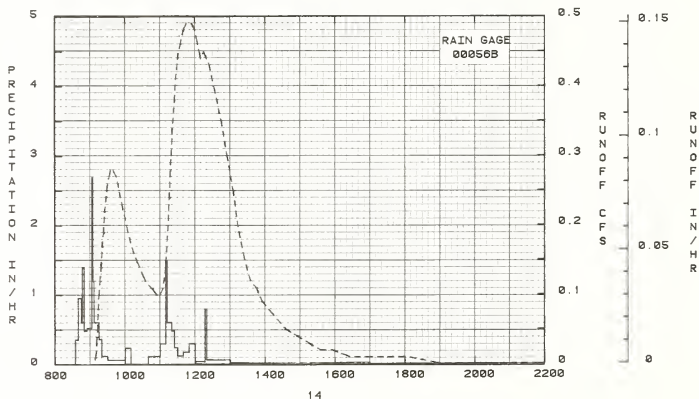
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.323585. Records began September 1, 1970.
STA AV based on 3 yr (1970-72) record period.

1972 SELECTED RUNOFF EVENT EISEL (WACO), TEXAS WATERSEED SW-19												
PRECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
80-Day	(inches)	(inches)	80-Day	of Day	(in/hr)	(inches)	80-Day	of Day	(cfs)	(inches)		
EVENT OF DECEMBER 14 - 15, 1972												
EG 000568												
12-14	0.0	0.0	12-14	835	0.0	0.0	12-14	905	0.0	0.0		
				840	0.3600	0.03		907	0.002	0.0		
				845	0.9600	0.11		909	0.006	0.0		
				847	0.5597	0.13		911	0.019	0.0001		
				850	1.4001	0.20		912	0.035	0.0003		
WATERSEED CONDITIONS:												
100% rangeland grasses, 4 to 6 inches tall, with moderate infestation of honey mesquite.												
				855	0.4799	0.24		913	0.055	0.0005		
				903	0.5251	0.31		914	0.076	0.0008		
				905	2.6999	0.40		915	0.095	0.0013		
				907	1.2003	0.44		917	0.119	0.0023		
				915	0.5999	0.52		919	0.143	0.0037		
				920	0.3600	0.55		921	0.171	0.0052		
				930	0.1200	0.57		923	0.195	0.0072		
				1000	0.0600	0.60		925	0.220	0.0092		
				1010	0.2401	0.64		930	0.262	0.0155		
				1040	0.0	0.64		935	0.276	0.0222		
				1050	0.1199	0.66		940	0.276	0.0291		
				1100	0.1200	0.68		945	0.268	0.0362		
				1110	0.3000	0.73		955	0.232	0.0487		
				1112	1.5001	0.76		1005	0.194	0.0556		
				1120	0.6000	0.86		1015	0.160	0.0687		
				1125	0.4799	0.90		1025	0.140	0.0762		
				1130	0.2400	0.92		1035	0.123	0.0829		
				1140	0.1200	0.94		1045	0.105	0.0686		
				1150	0.1600	0.57		1055	0.100	0.0540		
				1200	0.2999	1.02		1100	0.100	0.0566		
				1217	0.0353	1.03		1105	0.111	0.0592		
				1220	0.7599	1.07		1110	0.139	0.1023		
				1300	0.0600	1.11		1112	0.166	0.1039		
				1700	0.0150	1.17		1114	0.200	0.1056		
								1116	0.242	0.1080		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.305145.

1972	SELECTED RUNOFF EVENT					FIESSEL (WACO), TEXAS					WATERSHED SW-19				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF DECEMBER 14 - 15, 1972 (CONTINUED)															
								12-14	1118	0.276	0.1105				
									1120	0.314	0.1137				
									1122	0.343	0.1168				
									1125	0.383	0.1224				
									1130	0.442	0.1332				
									1135	0.462	0.1445				
									1140	0.475	0.1562				
									1145	0.485	0.1688				
									1155	0.493	0.1933				
									1200	0.481	0.2061				
									1205	0.464	0.2179				
									1210	0.444	0.2253				
									1215	0.448	0.2410				
									1220	0.444	0.2522				
									1225	0.425	0.2631				
									1235	0.350	0.2840				
									1245	0.348	0.3025				
									1255	0.255	0.3151				
									1305	0.246	0.3331				
									1315	0.151	0.3444				
									1325	0.148	0.3529				
									1335	0.122	0.3598				
									1345	0.106	0.3656				
									1355	0.052	0.3706				
									1415	0.066	0.3767				
									1435	0.046	0.3845				
									1455	0.037	0.3688				
									1515	0.027	0.3521				
									1535	0.021	0.3545				
									1555	0.016	0.3564				
									1625	0.011	0.3585				
									1655	0.009	0.4000				
									1800	0.006	0.4025				
									1900	0.005	0.4042				
									1930	0.003	0.4048				
									2000	0.001	0.4051				
									2400	0.0	0.4057				
								12-15	1400	0.0	0.4057				

NOTES: To convert runoff in cfs to in/hr, multiply by 0.305149.



EVENT OF DECEMBER 14 - 15, 1972
FIESSEL (WACO), TEXAS WATERSHED SW-19

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 33 sec. N.; Long. 96 deg. 53 min. 48 sec. W.

AREA: 3.21 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														EISEL (WACO), TEXAS WATERSHED SW-20																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																		
1972	P	2.61	0.83	0.50	1.87	2.89	3.20	2.11	4.59	4.09	5.41	2.37	1.55	32.42																	
	Q	1.060	0.0	0.0	0.0	0.0	0.001	0.005	0.005	0.018	0.430	0.038	0.566	2.123																	
STA AV	P	1.31	1.07	0.46	2.51	2.62	2.06	6.98	2.65	4.06	4.66	2.66	3.14	34.17																	
	Q	0.530	0.0	0.0	0.005	0.002	0.000	1.202	0.040	0.007	0.070	0.216	0.324	2.398																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
Maximum Discharge												Maximum Volume for Selected Time Interval																			
1 Hour				2 Hours				6 Hours				12 Hours				1 Day				2 Days				8 Days							
Date		Rate		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.					
1972	1- 3	0.691	1- 3	0.332	1- 3	0.380	12-14	0.516	12-14	0.554	12-14	0.565	12-13	0.566	12- 7	0.566															
MAXIMUMS FOR PERIOD OF RECORD																															
11-17		3.121		11-17		1.764		11-17		2.387		11-17		2.500		11-17		2.538		12- 8		2.578		12- 8		2.720		12- 2		3.307	
1971				1971				1971				1971				1971				1971				1971				1971			

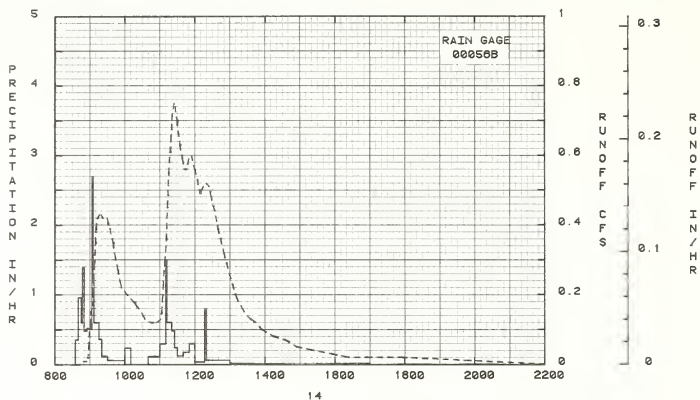
NOTES: Watershed conditions: 100% rangeland grasses with moderate infestation of honey mesquite, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, USDA Misc. Pub. 1180, p. 42-036-5. Precipitation and runoff records began September 1, 1970, part year records are included in STA AV. Precipitation data obtained from rain gage 56-E. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972				DAILY PRECIPITATION (inches)												EISEL (WACO), TEXAS WATERSHED SW-20											
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
1		0.18	0.14	0.06E	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.31	0.0														
2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
3		0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
4		0.0	0.0	0.0	0.0	0.0	0.0	2.05	0.13	0.0	0.0	0.0	0.0														
5		0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
6		0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.10E	0.0														
7		0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E														
8		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
9		0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0														
10		0.0	0.0	0.0	0.0	0.0	0.19	0.0	1.58	0.0	0.0	0.0	0.0														
11		0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.55E														
12		0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.04E	0.0	0.0	0.83	0.0														
13		0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.05	0.0														
14		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.17	0.0														
15		0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0														
16		0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	2.39	0.0	0.0	0.0														
17		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.04	0.0														
18		0.0	0.0	0.0	0.0	0.56	0.0	0.01E	0.0	0.0	0.0	0.31	0.05E														
19		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
20		0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0														
21		0.0	0.0	0.0	0.52	0.0	0.0	0.0 E	0.0	0.0	0.30	0.20	0.0														
22		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	1.68	0.0	0.0														
23		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.18	0.08E	0.0	0.0	0.0														
24		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.48	0.0	0.0														
25		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
26		0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.09E	2.3E	0.0	0.0														
27		0.10E	0.0	0.27	1.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
28		0.0	0.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
29		0.84	0.48	0.0	0.0	0.0	0.10E	0.05E	0.0	0.47	0.45	0.04E	0.07E														
30		0.0	0.0	0.0	0.0	0.0	2.66	0.0	0.0	0.0	0.01E	0.0	0.0														
31		0.0		0.0		0.0		0.0			0.31																
TOTAL		2.61	0.83	0.50	1.87	2.85	3.20	2.11	4.59	4.09	5.41	2.37	1.95														
STA AV		1.31	1.07	0.46	2.51	2.62	2.06	6.98	2.65	4.06	4.66	2.66	3.14														

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42-002-1. Precipitation values are from rain gage 56B. Records began September 1, 1970. STA AV based on 3 yr (1970-1972) record period. Estimate codes may indicate that non-significant event totals are included.

1972	SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS					WATERSHED SW-20				
ANTICIPATED CONDITIONS			RAINFALL			RUNOFF									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Time	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	of Day	(cfs)	(inches)				
EVENT OF DECEMBER 14 - 15, 1972 (CONTINUED)															
							12-14								
									949	0.257	0.0899				
									954	0.224	0.0960				
									959	0.207	0.1015				
									1014	0.184	0.1166				
									1024	0.160	0.1255				
									1034	0.133	0.1331				
									1044	0.122	0.1396				
									1049	0.118	0.1428				
									1054	0.115	0.1458				
									1101	0.133	0.1504				
									1103	0.154	0.1518				
									1105	0.200	0.1537				
									1106	0.238	0.1548				
									1107	0.266	0.1560				
									1109	0.307	0.1591				
									1111	0.364	0.1623				
									1113	0.467	0.1668				
									1115	0.551	0.1723				
									1117	0.608	0.1779				
									1119	0.660	0.1848				
									1121	0.716	0.1914				
									1124	0.746	0.2029				
									1126	0.738	0.2101				
									1129	0.705	0.2214				
									1134	0.634	0.2392				
									1138	0.585	0.2517				
									1142	0.562	0.2635				
									1146	0.565	0.2751				
									1149	0.587	0.2841				
									1154	0.603	0.2992				
									1159	0.565	0.3100				
									1204	0.529	0.3285				
									1208	0.493	0.3390				
									1214	0.508	0.3541				
									1219	0.521	0.3678				
									1224	0.506	0.3808				
									1229	0.471	0.3932				
									1234	0.438	0.4053				
									1239	0.354	0.4156				
									1244	0.355	0.4253				
									1249	0.322	0.4343				
									1254	0.284	0.4420				
									1259	0.256	0.4489				
									1304	0.227	0.4553				
									1309	0.199	0.4607				
									1314	0.176	0.4655				
									1324	0.150	0.4740				
									1334	0.125	0.4812				
									1344	0.115	0.4874				
									1354	0.103	0.4931				
									1414	0.080	0.5025				
									1434	0.068	0.5102				
									1454	0.055	0.5165				
									1524	0.043	0.5241				
									1554	0.032	0.5259				
									1624	0.025	0.5343				
									1654	0.023	0.5380				
									1754	0.017	0.5402				
									1954	0.010	0.5525				
									2154	0.005	0.5571				
									2400	0.003	0.5597				
							12-15		600	0.002	0.5643				
									1300	0.0	0.5665				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.308552.



EVENT OF DECEMBER 14 - 15, 1972
HIESEL (WACO), TEXAS WATERSHED 58-20

BIESEL (WACO), TEXAS WATERSHED T-13

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 36 sec. N.; Long. 96 deg. 52 min. 35 sec. W.

AREA: 11.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														BIESEL (WACO), TEXAS WATERSHED T-13										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1972	P 2.50	1.00	0.47	1.75	3.38	3.64	2.07	5.61	3.37	5.06	2.35	1.88	33.00											
	Q 0.014	0.005	0.0	0.0	0.398	0.023	0.177	0.0	0.0	0.033	0.079	0.053	0.823											
STA AV	P 1.04	2.49	2.40	2.99	2.22	1.38	3.51	2.68	3.27	4.77	2.38	3.41	32.52											
	Q 0.004	0.245	0.910	0.304	0.109	0.006	0.141	0.030	0.0	0.207	0.020	0.148	2.125											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																								
	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days									
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1972	5-18	1.270	5-18	0.381	5-18	0.385	5-18	0.386	5-18	0.386	5-17	0.386	5-16	0.386	5-10	0.358								
MAXIMUMS FOR PERIOD OF RECORD																								
	7-27	2.062	2-24	0.419	2-24	0.574	3-7	0.972	3-7	1.025	3-6	1.701	3-6	1.725	2-27	2.645								
	1971		1970		1970		1970		1970		1970		1970		1970									

NOTES: Watershed conditions 968 cotton; 48 grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.037-5. Precipitation and runoff records began January 1, 1969. Precipitation data obtained from rain gage 70-A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY PRECIPITATION (inches)						BIESEL (WACO), TEXAS WATERSHED T-13															
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec									
1	0.25	0.13	0.12	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.37	0.0									
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
4	0.0	0.0	0.0	0.0	0.0	0.0	1.95	0.15	0.0	0.0	0.0	0.0									
5	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
6	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.13E	0.0									
7	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.05E									
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
9	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0									
10	0.0	0.0	0.0	0.0	0.0	0.21	0.0	1.38	0.0	0.0	0.0	0.0									
11	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.42E									
12	0.0	0.0	0.0	0.0	0.21	0.0	0.03E	0.30	0.09E	0.0	0.78	0.0									
13	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.05	0.0									
14	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	1.26									
15	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0									
16	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	1.81	0.0	0.0	0.0									
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.23	0.0	0.10E									
18	0.0	0.0	0.0	0.0	1.11	0.0	0.06E	0.0	0.0	0.0	0.30	0.04E									
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0									
20	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
21	0.0	0.0	0.0	0.56	0.0	0.0	0.01E	0.0	0.0	0.30	0.17	0.0									
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.0	1.53	0.0	0.0									
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.32	0.14	0.0	0.0	0.0									
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.42	0.0									
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	1.54	0.0	0.0									
27	0.10E	0.0	0.23	1.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
28	0.72E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
29	0.71	0.68	0.0	0.0	0.0	0.0	0.02E	0.0	0.36	0.53	0.03E	0.07E									
30	0.0	0.0	0.0	0.0	0.0	3.02	0.0	0.0	0.0	0.0	0.0	0.0									
31	0.0		0.0		0.0		0.0	0.0		0.26		0.0									
TOTAL	2.50	1.00	0.47	1.75	3.34	3.64	2.07	5.61	3.37	5.06	2.35	1.84									
STA AV	1.04	2.49	2.40	2.99	2.22	1.38	3.51	2.68	3.27	4.77	2.38	3.41									

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 70-A. Records began January 1, 1969. STA AV based on 4 yr (1969-72) record period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs)												EISEL (WACO), TEXAS WATERSHED Y-13			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.084	0.0	0.0	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.043			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001			
16	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.183	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
MEAN	0.0002	0.0001	0.0	0.0	0.0061	0.0004	0.0027	0.0	0.0	0.0005	0.0013	0.0014			
INCHES	0.014	0.005	0.0	0.0	0.358	0.023	0.177	0.0	0.0	0.033	0.032	0.053			
STA 4V	0.004	0.245	0.510	0.304	0.105	0.006	0.141	0.030	0.0	0.207	0.020	0.188			

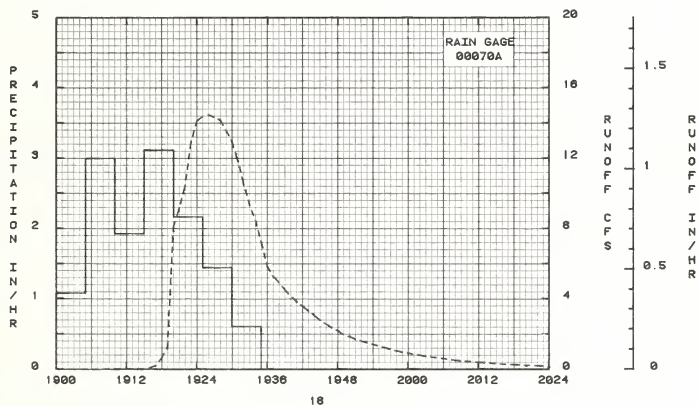
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.106341. Records began January 1, 1965.
STA 4V based on 4 yr (1969-72) record period.

1972 SELECTED RUNOFF EVENT												EISEL (WACO), TEXAS WATERSHED Y-13			
ANTICIPATED CONDITIONS				RAINFALL				RUNOFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Acc.					
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	of Day	(cfs)	(inches)				
EVENT OF MAY 18, 1972															
EG 00070A				EG 00070A											
5-18	0.0	0.0	5-18	1900	0.0	0.0	5-18	1908	0.0	0.0					
				1905	1.0801	0.09		1909	0.0	0.0					
				1910	3.0002	0.34		1910	0.0	0.0					
				1915	1.5198	0.50		1911	0.001	0.0					
				1920	3.1202	0.76		1912	0.003	0.0					
WATERSHED CONDITIONS:				1925	2.1601	0.94		1913	0.007	0.0					
96% cotton; 4% Bermuda-				1930	1.4358	1.06		1914	0.015	0.0					
grass waterway, good cover.				1935	0.6000	1.11		1915	0.025	0.0					
								1916	0.073	0.0001					
								1917	0.157	0.0003					
								1918	0.615	0.0009					
								1919	1.241	0.0023					
								1920	8.051	6.0051					
								1921	5.124	0.0216					
								1922	10.475	0.6359					
								1923	12.980	0.0532					
								1924	14.134	0.0730					
								1925	14.355	0.0538					
								1926	14.470	0.1148					
								1928	14.134	0.1568					
								1929	13.550	0.1770					
								1930	12.675	0.1965					
								1931	11.767	0.2145					
								1932	10.445	0.2307					
								1933	5.294	0.2451					
								1934	8.436	0.2582					
								1935	7.158	0.2656					
								1936	5.814	0.2791					
								1937	5.256	0.2872					
								1938	4.923	0.2947					

NOTES: To convert runoff in CFS to IN/HR, multiply by .067764.

1972 SELECTED RUNOFF EVENT			BIESSEL (WACO), TEXAS			WATERSHED Y-13		
ANTECEDENT CONDITIONS			RAINFALL			RUNCFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	No-Day	of Day	(cfs)
EVENT OF MAY 18, 1972 (CONTINUED)								
						5-18	1939	4.493
							1941	3.802
							1943	3.311
							1945	2.769
							1947	2.341
							1949	1.966
							1951	1.677
							1953	1.475
							1956	1.194
							1959	0.941
							2003	0.718
							2008	0.475
							2013	0.341
							2018	0.231
							2023	0.146
							2028	0.053
							2033	0.056
							2038	0.040
							2043	0.026
							2048	0.018
							2058	0.013
							2118	0.003
							2138	0.001
							2158	0.0
							2253	0.0

NOTES: To convert runoff in CFS to IN/HR, multiply by .087764.



EVENT OF MAY 18, 1972
BIESSEL (WACO), TEXAS WATERSHED Y-13

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 11 sec. N.; Long. 96 deg. 52 min. 55 sec. W.

AREA: 5.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														HISEL (WACO), TEXAS							WATERSHED T-14			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1972	P	2.47	0.81	0.40	1.77	3.41	2.18	5.66	3.12	5.07	2.15	1.60	33.31											
	Q	0.156	0.0	0.0	0.0	0.097	0.009	0.057	0.032	0.0	1.775	0.005	0.326	2.457										
STA AV	P	1.06	2.41	2.40	3.02	2.32	1.64	3.31	3.06	3.14	4.76	2.26	3.32	32.70										
	Q	0.040	0.104	0.679	0.128	0.032	0.002	0.760	0.170	0.0	0.673	0.458	0.952	3.598										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																								
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days										
Date Date		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.								
1972	10-26	0.854	10-26	0.695	10-26	1.078	10-26	1.476	10-26	1.550	10-26	1.557	10-25	1.557	10-23	1.711								
MAXIMUMS FOR PERIOD OF RECORD																								
11-17		2.886	11-17	1.305	11-17	1.711	11-17	1.796	12- 8	2.134	12- 8	2.633	12- 8	2.675	12- 2	2.552								
1971			1971		1971		1971		1971		1971		1971		1971									

NOTES: Watershed conditions: 96% grain sorghum; 4% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1370, p. 42,038-5. Precipitation and runoff records began January 1, 1969. Precipitation data from Thiessen weighted method using rain gages 75-A and 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY PRECIPITATION (inches)						HISEL (WACO), TEXAS WATERSHED T-14						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.24	0.13	0.12E	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.31	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.16	0.0	0.0	0.0	0.0
5	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.12E	0.0
7	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.02E	0.38	0.0	1.27	0.0	0.0	0.0	0.0
11	0.0	0.12E	0.0	0.0	0.00E	0.0	0.0	0.33	0.0	0.0	0.0	0.35S
12	0.0	0.0	0.0	0.0	0.21	0.0	0.09E	0.32	0.05E	0.0	0.74	0.0
13	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.04	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.24
15	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	1.68	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.05E	0.0
18	0.0	0.0	0.0	0.0	1.13	0.0	0.04E	0.0	0.0	0.0	0.25	0.05E
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0
20	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.53	0.0	0.0	0.03E	0.0	0.0	0.31	0.18	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.0	1.87	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.10E	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.43	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	1.58	0.0	0.0
27	0.10E	0.0	0.18	1.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.68S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.74	0.49	0.0	0.0	0.0	0.0	0.01E	0.0	0.32	0.50	0.03E	0.06E
30	0.0	0.0	0.0	0.0	0.0	3.40	0.0	0.0	0.0	0.30	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0
TOTAL	2.47	0.81	0.40	1.77	3.41	4.47	2.18	5.66	3.12	5.07	2.15	1.60
STA AV	1.06	2.41	2.40	3.02	2.32	1.64	3.31	3.06	3.14	4.76	2.26	3.32

NOTES: For daily air temperature in the vicinity, see table for watershed C, p. 42,002-1. Precipitation values are Thiessen weighted average of rain gages 75-A and 89. Records began January 1, 1969. STA AV based on 4 yr (1969-72) record period. Estimate codes may indicate that non-significant event totals are included.

1972	MEAN DAILY DISCHARGE (cfs)											BIESFL (WACO), TEXAS		WATERSEED T-14	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Lec			
1	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.075			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.032	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.365	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0			
30	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0			
MEAN	0.0012	0.0	0.0	0.0	0.0007	0.0001	0.0004	0.0002	0.0	0.0135	0.0	0.0025			
INCHES	0.156	0.0	0.0	0.0	0.097	0.009	0.057	0.032	0.0	1.775	0.005	0.326			
STA AV	0.040	0.104	0.679	0.128	0.032	0.002	0.760	0.170	0.0	0.673	0.458	0.952			

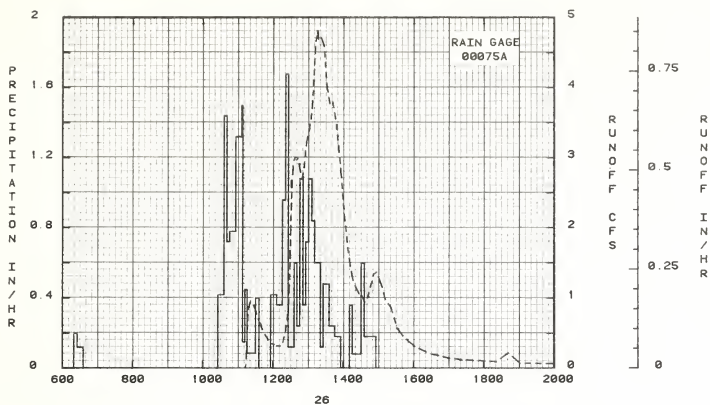
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 4.250295. Records began January 1, 1969.
STA AV based on 4 yr (1969-72) record period.

1972	SELECTED RUNOFF EVENT					BIESFL (WACO), TEXAS			WATERSEED T-14		
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF OCTOBER 26, 1972											
EG 00075A											
10-26	0.0	0.0	10-26	620	0.0	0.0	10-26	1113	0.0	0.0	
				626	0.1999	0.02		1114	0.058	0.0001	
				636	0.1200	0.04		1115	0.265	0.0007	
				1026	0.0	0.04		1116	0.530	0.0018	
				1036	0.4200	0.11		1117	0.653	0.0035	
WATERSEED CONDITIONS:											
96% grain sorghum; 4% Bermuda grass waterway, good cover.											
				1041	1.4399	0.23		1118	0.856	0.0056	
				1046	0.7200	0.25		1122	0.956	0.0163	
				1056	0.7800	0.42		1127	0.855	0.0304	
				1106	1.3200	0.64		1132	0.775	0.0425	
				1108	1.5001	0.69		1137	0.654	0.0525	
				1112	0.1499	0.70		1142	0.550	0.0621	
				1116	0.4500	0.73		1147	0.466	0.0655	
				1130	0.0857	0.75		1152	0.358	0.0758	
				1136	0.3599	0.75		1157	0.347	0.0815	
				1156	0.0	0.79		1202	0.340	0.0865	
				1206	0.4200	0.86		1207	0.318	0.0513	
				1216	0.3600	0.52		1212	0.325	0.0562	
				1221	0.9600	1.00		1217	0.374	0.1013	
				1226	1.6600	1.14		1219	0.448	0.1039	
				1236	0.1199	1.16		1221	0.507	0.1065	
				1241	0.6000	1.21		1223	0.606	0.1100	
				1246	0.2400	1.23		1225	0.768	0.1138	
				1251	1.0800	1.32		1227	0.550	0.1193	
				1256	0.3600	1.35		1228	1.192	0.1223	
				1301	0.7200	1.41		1229	1.557	0.1262	
				1306	1.0801	1.50		1230	1.958	0.1323	
				1311	0.8399	1.57		1231	2.282	0.1382	
				1316	0.6000	1.62		1232	2.611	0.1450	
				1321	0.6000	1.67		1234	2.885	0.1621	
				1326	0.1199	1.68		1236	2.980	0.1783	

NOTES: To convert runoff in CFS to IN/HR, multiply by .177056.

1972 SELECTED RUNOFF EVENT			LISESL (WACO), TEXAS			WATERSHEED T-14				
ANTICIPATED CONDITIONS			RAINFALL			RUNCFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 26, 1972 (CONTINUED)										
10-26	1336	0.4600	1.76	10-26	1238	3.006	0.1969			
	1346	0.2401	1.80	1240	2.967	0.2134				
	1356	0.1800	1.83	1242	2.554	0.2320				
	1411	0.0	1.83	1244	2.912	0.2483				
	1416	0.3600	1.86	1247	2.752	0.2739				
	1431	0.0800	1.88	1250	2.713	0.2587				
	1436	0.6000	1.93	1253	2.872	0.3238				
	1456	0.1800	1.99	1257	3.234	0.3597				
				1302	3.410	0.4080				
				1307	3.738	0.4599				
				1312	4.593	0.5233				
				1315	4.820	0.5656				
				1317	4.687	0.5919				
				1322	4.724	0.6603				
				1327	4.553	0.7312				
				1332	4.006	0.7937				
				1337	3.771	0.8502				
				1342	3.788	0.9077				
				1347	3.546	0.9610				
				1352	3.146	1.0096				
				1357	2.713	1.0542				
				1402	2.167	1.0896				
				1407	1.752	1.1184				
				1412	1.451	1.1431				
				1417	1.247	1.1627				
				1422	1.153	1.1801				
				1427	1.055	1.1969				
				1432	1.033	1.2121				
				1437	0.592	1.2264				
				1442	1.005	1.2412				
				1447	1.168	1.2570				
				1452	1.338	1.2752				
				1457	1.373	1.2958				
				1502	1.264	1.3150				
				1507	1.153	1.3326				
				1512	0.976	1.3488				
				1522	0.856	1.3754				
				1532	0.575	1.3967				
				1542	0.461	1.4121				
				1552	0.378	1.4243				
				1602	0.311	1.4345				
				1612	0.268	1.4431				
				1622	0.231	1.4503				
				1632	0.198	1.4567				
				1642	0.175	1.4622				
				1702	0.145	1.4716				
				1722	0.122	1.4794				
				1742	0.107	1.4862				
				1802	0.096	1.4922				
				1822	0.088	1.4976				
				1842	0.217	1.5067				
				1902	0.069	1.5151				
				2002	0.061	1.5266				
				2102	0.052	1.5366				
				2202	0.034	1.5442				
				2302	0.024	1.5493				
				2400	0.020	1.5531				

NOTES: To convert runoff in CFS to IN/HR, multiply by .177096.



EISEL (WACO), TEXAS WATERSHED W-12

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 56 sec. N.; 96 deg. 53 min. 07 sec. W.

AREA: 9.90 acres

MONTHLY PRECIPITATIONS AND RUNOFF (inches)												EISEL (WACO), TEXAS WATERSHED W-12	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	2.38	0.69	0.43	1.79	3.37	4.48	2.15	5.11	2.93	5.07	2.12	1.87	32.39
Q	0.065	0.0	0.0	0.0	0.000	0.072	0.067	0.034	0.064	0.472	0.091	0.040	0.905
STA AV P	1.07	2.28	1.88	2.59	2.59	2.17	4.34	3.18	3.64	4.75	2.28	3.34	34.12
Q	0.024	0.045	0.583	0.039	0.000	0.024	0.180	0.124	0.037	0.444	0.587	0.504	2.950
ANNUAL MAXIMUM DISCHARGE (lt./hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972 6-30	0.141	6-30	0.066	6-30	0.072	10-26	0.124	10-26	0.164	10-26	0.208	10-26	0.240
MAXIMUMS FOR PERIOD OF RECORD													
11-17	1.912	11-17	1.278	11-17	2.018	11-17	2.209	11-17	2.244	12-8	2.637	12-8	2.734
1971 1971		1971		1971		1971		1971		1971		1971	

NOTES: Watershed conditions: 97% fall planted oats; 3% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.039-3. Precipitation and runoff records began October 1, 1969, part year records are included in STA AV. Precipitation data obtained from rain gage WB. For long-time precipitation records, see National Weather Service records at Waco, Texas.

DAILY PRECIPITATIONS (inches) *												EISEL (WACO), TEXAS WATERSHED W-12	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.29	0.14E	0.12	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.24	0.0	
2	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	2.02	0.16	0.0	0.0	0.0	0.0	
5	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.17	0.0	
7	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.03E	0.0	0.0	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.02E	0.33	0.0	1.31	0.0	0.0	0.0	0.0	
11	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.43E	
12	0.0	0.0	0.0	0.0	0.26	0.0	0.05E	0.49	0.02E	0.0	0.75	0.0	
13	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27	
15	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	1.53	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.06E	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.57	0.0	0.05E	0.0	0.0	0.22	0.05E	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	
20	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.31	0.18	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	1.11	0.0	1.89	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.15	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.43	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	1.53	0.0	0.0	0.0	
27	0.15E	0.0	0.20	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.59E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.68	0.37	0.0	0.0	0.0	0.0	0.0	0.27	0.57	0.03E	0.05E	0.0	
30	0.0	0.0	0.0	0.0	0.0	3.47	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	
TOTAL	2.38	0.69	0.43	1.79	3.37	4.48	2.15	5.11	2.93	5.07	2.12	1.87	
STA AV	1.07	2.28	1.88	2.59	2.59	2.17	4.34	3.18	3.64	4.75	2.28	3.34	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage WB. Records began October 1, 1969. STA AV based on 4 yr (1969-72) record period. Estimate codes say indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs) EISEL (WACO), TEXAS WATERSHED W-12												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.024	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0
3	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.024	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.069	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0
29	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.030	0.0	0.0	0.0	0.018	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0
MEAN	0.0009	0.0	0.0	0.0	0.0	0.0010	0.0005	0.0005	0.0009	0.0063	0.0013	0.0005
INCHES	0.065	0.0	0.0	0.0	0.0	0.002	0.067	0.034	0.068	0.372	0.091	0.000
STA AV	0.024	0.045	0.583	0.039	0.000	0.024	0.168	0.124	0.037	0.444	0.587	0.504

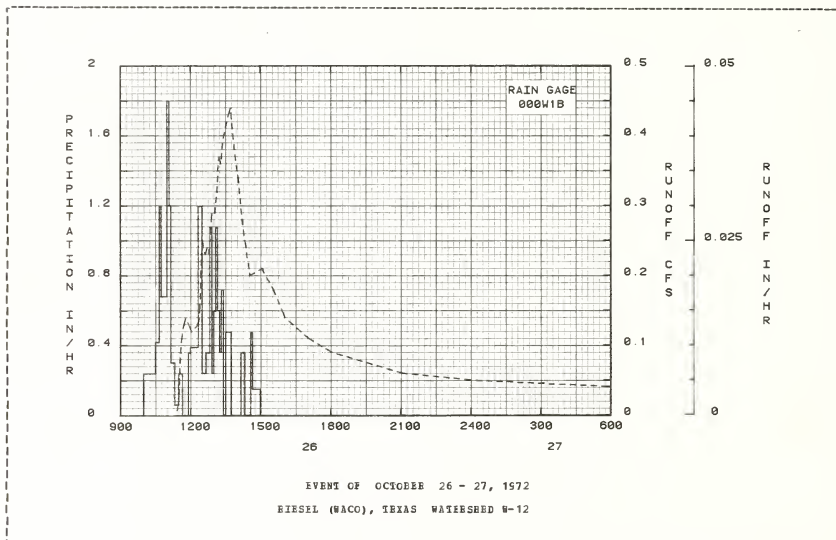
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.404207. STA AV based on 4 yr (1965-72) record period.

1972 SELECTED RUNOFF EVENT EISEL (WACO), TEXAS WATERSHED W-12												
ANTECEDENT CONDITIONS				RAINFALL				RURCFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF OCTOBER 26 - 27, 1972												
EG 000W1E												
10-26	0.0	0.0	10-26	1000	0.0	0.0	10-26	1123	0.0	0.0		
				1030	0.2400	0.12		1125	0.001	0.0		
				1040	0.4200	0.15		1127	0.006	0.0		
				1045	1.2001	0.29		1129	0.018	0.0		
				1100	0.6800	0.46		1131	0.034	0.0001		
WATERSHED CONDITIONS:												
97% fall planted oats; 3% Bernndagrass waterway, good cover.												
				1105	1.7599	0.61		1133	0.064	0.0003		
				1110	1.2001	0.71		1135	0.089	0.0006		
				1120	0.3000	0.76		1138	0.113	0.0011		
				1130	0.0600	0.77		1143	0.132	0.0021		
				1140	0.2400	0.81		1148	0.138	0.0032		
				1155	0.0	0.81		1203	0.120	0.0064		
				1200	0.3602	0.84		1218	0.132	0.0056		
				1220	0.3900	0.97		1223	0.140	0.0108		
				1225	1.2001	1.07		1225	0.164	0.0113		
				1230	1.1999	1.17		1227	0.204	0.0119		
				1240	0.2401	1.21		1229	0.231	0.0126		
				1250	0.3600	1.27		1231	0.252	0.0135		
				1255	1.0800	1.36		1233	0.243	0.0143		
				1300	0.2400	1.38		1238	0.231	0.0163		
				1305	0.6000	1.43		1243	0.243	0.0182		
				1310	1.0800	1.52		1248	0.234	0.0202		
				1315	0.6000	1.57		1253	0.270	0.0224		
				1320	0.3600	1.60		1255	0.285	0.0233		
				1325	0.7200	1.66		1303	0.252	0.0272		
				1330	0.0	1.66		1308	0.316	0.0298		
				1345	0.4800	1.78		1313	0.374	0.0326		
				1410	0.0	1.78		1318	0.362	0.0356		
				1420	0.3601	1.84		1323	0.389	0.0388		
				1425	0.0	1.84		1333	0.423	0.0455		
				1440	0.4799	1.88		1343	0.437	0.0527		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.100175.

1972	SELECTED RUNOFF EVENT						BIRSEL (WACO), TEXAS WATERSHED W-12					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)												
10-26			1500		0.1500	1.93	10-26	1353	0.381	0.0556		
								1403	0.340	0.0655		
								1413	0.283	0.0707		
								1423	0.243	0.0751		
								1433	0.204	0.0788		
								1503	0.207	0.0891		
								1533	0.179	0.0588		
								1603	0.144	0.1069		
								1703	0.109	0.1196		
								1803	0.067	0.1294		
								2103	0.056	0.1505		
								2400	0.051	0.1667		
							10-27	600	0.036	0.1928		
								1200	0.020	0.2096		
								1800	0.017	0.2207		
								2400	0.013	0.2297		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.100175.



LOCATION: Falls County, Texas; 16 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 57 sec. N.; Long. 96 deg. 53 min. 08 sec. W.

AREA: 11.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED W-13											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1972 P	2.38	0.69	0.43	1.79	3.37	4.48	2.15	5.11	2.93	5.07	2.12	1.67	32.39												
	Q 0.041	0.0	0.0	0.0	0.0	0.036	0.043	0.017	0.126	0.293	0.070	0.039	0.666												
STA AV P	1.07	2.28	1.88	2.59	2.59	2.17	4.34	3.18	3.64	4.75	2.28	3.34	34.12												
	Q 0.018	0.038	0.459	0.065	0.0	0.012	0.091	0.069	0.067	0.321	0.521	0.865	2.526												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
Maximum Discharge													Maximum Volume for Selected Time Interval												
Date		Date	Vol.	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days									
Date		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1972		9-16	0.377	9-16	0.116	9-16	0.120	9-16	0.122	10-26	0.126	10-26	0.142	10-26	0.148	10-25	0.334								
MAXIMUMS FOR PERIOD OF RECORD																									
11-17		1.713	11-17	1.196	11-17	1.767	11-17	1.995	12-9	2.247	12-8	2.825	12-8	2.573	12-2	3.272									
1971			1971		1971		1971		1971		1971		1971		1971										

NOTES: Watershed conditions: 97% fall planted oats; 3% grassed waterway. Cropland planted in graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42,040-3. Precipitation and runoff records began October 1, 1969, part year records are included in STA AV. Precipitation data obtained from rain gage W18. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1972 DAILY PRECIPITATION (inches)						RIESEL (WACO), TEXAS WATERSHED W-13							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.29	0.148	0.12	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.24	0.0	
2	0.0	0.0	0.0	0.0	0.068	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	2.02	0.16	0.0	0.0	0.0	0.0	
5	0.0	0.078	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.17	0.0	
7	0.0	0.0	0.0	0.0	0.068	0.0	0.0	0.0	0.0	0.0	0.0	0.078	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.038	0.0	0.0	0.0	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.028	0.33	0.0	1.31	0.0	0.0	0.0	0.0	
11	0.0	0.118	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.435	
12	0.0	0.0	0.0	0.0	0.26	0.0	0.058	0.49	0.028	0.0	0.75	0.0	
13	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.04	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27	
15	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	1.53	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.068	0.0	
18	0.0	0.0	0.0	0.0	0.57	0.0	0.058	0.0	0.0	0.0	0.22	0.058	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.098	0.0	0.0	
20	0.0	0.0	0.118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.31	0.18	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.038	1.11	0.0	1.89	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.15	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.43	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.088	1.53	0.0	0.0	
27	0.158	0.0	0.20	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.68	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.57	0.038	0.058	
30	0.0	0.0	0.0	0.0	0.0	3.47	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	
TOTAL	2.38	0.69	0.43	1.79	3.37	4.48	2.15	5.11	2.53	5.07	2.12	1.87	
STA AV	1.07	2.28	1.88	2.59	2.59	2.17	4.34	3.18	3.64	4.75	2.28	3.34	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42,002-1. Precipitation values are from rain gage W18. Records began October 1, 1969. STA AV based on 4 yr (1969-72) record period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs)												BIESSEL (WACO), TEXAS WATERSHED W-13	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	
3	0.0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.061	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
29	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.006	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.030	0.0	0.0	
MEAN	0.0006	0.0	0.0	0.0	0.0	0.0006	0.0007	0.0003	0.0020	0.0005	0.0011	0.0006	
INCHES	0.001	0.0	0.0	0.0	0.0	0.036	0.043	0.017	0.126	0.293	0.070	0.039	
STA AV	0.018	0.038	0.459	0.065	0.0	0.012	0.091	0.065	0.067	0.321	0.521	0.865	

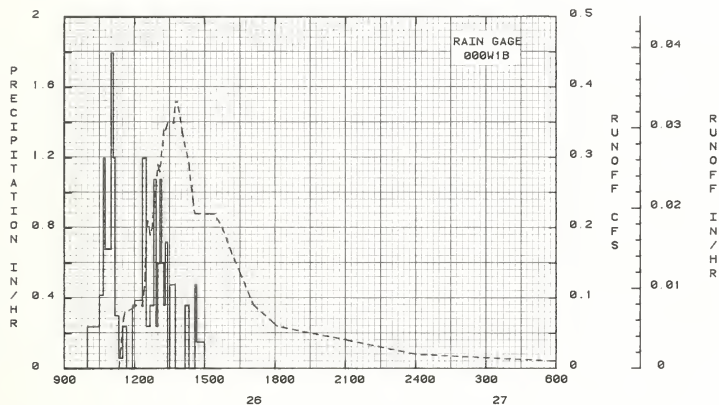
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.106341. Records began October 1, 1969. STA AV based on 4 yr (1969-72) record period.

1972 SELECTED RUNOFF EVENT						BIESSEL (WACO), TEXAS WATERSHED W-13					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF OCTOBER 26 - 27, 1972											
EG 000W18			EG 000W18								
10-26	0.0	0.0	10-26	1000	0.0	0.0	10-26	1118	0.0	0.0	
				1030	0.2400	0.12		1119	0.0	0.0	
				1040	0.4200	0.19		1120	0.003	0.0	
				1045	1.2001	0.29		1122	0.011	0.0	
				1100	0.6000	0.46		1125	0.028	0.0001	
WATERSHED CONDITIONS:											
97% fall planted oats; 38				1105	1.7559	0.61		1130	0.059	0.0004	
Bernadagrass waterway, good				1110	1.2001	0.71		1135	0.061	0.0005	
cover.				1120	0.3000	0.76		1205	0.066	0.0006	
				1130	0.0600	0.77		1220	0.087	0.0065	
				1140	0.2400	0.81		1225	0.108	0.0072	
				1155	0.0	0.81		1227	0.127	0.0076	
				1200	0.3602	0.84		1228	0.146	0.0078	
				1220	0.3900	0.97		1231	0.156	0.0086	
				1225	1.2001	1.07		1235	0.210	0.0098	
				1230	1.1999	1.17		1240	0.191	0.0112	
				1240	0.2401	1.21		1245	0.196	0.0127	
				1250	0.3600	1.27		1250	0.226	0.0142	
				1255	1.0800	1.36		1255	0.259	0.0159	
				1300	0.2400	1.38		1300	0.265	0.0160	
				1305	0.6000	1.43		1305	0.261	0.0200	
				1310	1.0800	1.52		1315	0.344	0.0246	
				1315	0.6000	1.57		1320	0.336	0.0270	
				1320	0.3600	1.60		1325	0.347	0.0295	
				1325	0.7200	1.66		1340	0.347	0.0371	
				1330	0.0	1.66		1345	0.376	0.0398	
				1345	0.4800	1.78		1350	0.378	0.0425	
				1410	0.0	1.78		1405	0.333	0.0503	
				1420	0.3601	1.84		1420	0.291	0.0571	
				1435	0.0	1.84		1425	0.262	0.0591	
				1440	0.4799	1.88		1430	0.241	0.0610	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.067764.

1972 SELECTED RUNOFF EVENT			BIRSEL (WACO), TEXAS WATERSHED #13							
PRECIPITATION CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 26 - 27, 1972 (CONTINUED)										
10-26	1500	0.1500	1.93	10-26	1435	0.218	0.0627			
					1505	0.221	0.0723			
					1525	0.221	0.0787			
					1545	0.156	0.0848			
					1605	0.166	0.0901			
					1635	0.125	0.0965			
					1705	0.054	0.1013			
					1805	0.057	0.1079			
					2105	0.036	0.1201			
					2400	0.023	0.1277			
				10-27	600	0.013	0.1372			
					1200	0.007	0.1425			
					1800	0.004	0.1454			
					2400	0.002	0.1470			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.087764.



EVENT OF OCTOBER 26 - 27, 1972
BIRSEL (WACO), TEXAS WATERSHED #13

OYFORE, MISSISSIPPI WATERSHED W-4C

LOCATION: Marshall Co., Miss.; 4.8 mi. SE of Holly Springs, on State Highway No. 4; Chew Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 1580.00 acres 2.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OYFORD, MISSISSIPPI				WATERSHED W-4C			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual								
1972	P	6.28	1.15	4.65	3.64	4.96	5.27	9.68	2.91	3.67	3.48	11.54	8.53	65.78							
	Q	0.302	0.014	0.145	0.051	0.237	0.179	1.453	0.075	0.020	0.030	2.445	2.639	7.550							
STA AV	P	3.86	4.59	4.73	4.83	4.05	3.22	4.09	3.64	4.56	2.58	4.58	5.35	50.13							
	Q	0.591	0.956	0.808	0.666	0.273	0.116	0.267	0.206	0.302	0.108	0.572	0.602	5.667							
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																					
Maximum Discharge				Maximum Volume for Selected Time Interval																	
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days					
Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date					
1972	7-3	0.458	7-3	0.445	7-3	0.683	11-7	1.225	11-6	1.686	11-6	1.631	11-6	1.842	12-8	2.210					
MAXIMUMS FOR PERIOD OF RECORD																					
2-23	0.840	2-23	0.720	2-23	1.130	3-4	1.560	11-6	1.686	1-31	2.380	1-30	3.340	1-27	3.900						
1962		1962		1962		1964		1972		1957		1957		1957							

NOTES: Watershed conditions: About 74% in cultivation (cotton, corn, soybeans, sugarcane), fair cover November to March; poor cover April and May improving to good by mid-July; 4% in pasture and idle land, good cover April to October with fair cover remainder of year; 44% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1972. Reported as Watershed W-4C prior to 1965 and from 1965-68 as Watershed W-4B; redesignated as W-4C (1969). Gaging station relocated upstream, Jan. 1965, reducing drainage area from 2,000 to 1,580 acres. About 31% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62-1-4. Monthly precipitation Thiessen weighted from rain gages 7, 8 and 18. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, MS, Mississippi.

1972 DAILY AIR TEMPERATURE (degrees F)													OYFORE, MISSISSIPPI		WATERSHED W-4C	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
1	48 36	46 28	74 58	53 32	72 62	77 47	86 68	87 68	90 66	70 39	78 56	56 32	48 36	46 28	74 58	53 32
2	30 36	47 40	59 32	68 32	72 55	83 57	88 68	88 71	88 67	76 42	78 42	68 37	30 36	47 40	59 32	68 32
3	53 36	46 26	45 32	76 52	72 52	87 62	80 68	89 71	88 69	78 54	66 42	68 46	53 36	46 26	45 32	76 52
4	54 23	38 40	46 37	57 39	74 45	90 60	80 62	92 71	72 61	83 63	73 38	64 46	54 23	38 40	46 37	57 39
5	31 17	50 20	51 30	70 36	81 50	92 63	77 61	86 68	83 70	88 60	70 36	65 37	31 17	50 20	51 30	70 36
6	40 14	50 37	61 32	74 47	81 56	94 65	78 52	92 69	85 53	83 57	70 45	37 22	40 14	50 37	61 32	74 47
7	58 27	34 23	66 52	78 39	72 62	89 68	80 52	86 66	89 68	70 46	60 40	45 22	58 27	34 23	66 52	78 39
8	58 30	50 20	55 30	45 35	74 65	90 62	84 56	90 62	92 73	76 41	61 37	52 39	58 30	50 20	55 30	45 35
9	68 48	56 24	61 27	68 35	58 49	94 66	87 65	88 73	83 66	75 48	64 39	47 36	68 48	56 24	61 27	68 35
10	68 55	56 33	71 34	76 50	70 45	81 63	86 68	83 70	88 60	80 48	62 51	36 25	68 55	56 33	71 34	76 50
11	55 32	62 31	76 48	81 67	78 50	83 54	88 63	90 66	87 68	80 60	53 42	38 29	55 32	62 31	76 48	81 67
12	68 30	50 38	76 54	84 70	68 58	86 66	90 64	91 68	89 66	84 60	66 34	66 38	68 30	50 38	76 54	84 70
13	69 30	52 33	66 48	84 69	80 60	90 69	87 66	88 68	92 67	85 60	68 50	42 33	69 30	52 33	66 48	84 69
14	40 22	67 33	66 39	85 69	80 59	89 71	87 70	89 66	92 70	84 64	50 40	35 35	40 22	67 33	66 39	85 69
15	22 10	56 31	77 46	86 67	77 54	82 70	88 72	89 64	94 67	74 52	50 34	35 28	22 10	56 31	77 46	86 67
16	24 5	56 30	64 47	73 57	85 52	84 66	89 76	92 66	87 72	84 52	45 31	34 20	24 5	56 30	64 47	73 57
17	48 22	61 28	63 42	75 49	82 60	83 63	90 73	94 70	82 69	80 58	42 31	40 20	48 22	61 28	63 42	75 49
18	66 37	48 37	66 43	81 46	81 55	90 65	90 70	94 70	83 69	76 46	50 22	41 28	66 37	48 37	66 43	81 46
19	66 56	47 27	73 37	84 61	84 54	88 70	93 72	95 69	94 68	83 59	46 35	58 44	66 56	47 27	73 37	84 61
20	70 58	58 25	78 50	82 67	84 56	92 66	91 72	95 68	92 68	84 36	42 39	52 42	70 58	58 25	78 50	82 67
21	61 55	69 49	71 54	78 60	88 54	82 62	93 68	94 70	90 67	66 46	44 35	52 35	61 55	69 49	71 54	78 60
22	68 57	69 41	70 44	76 50	90 58	79 56	95 68	93 70	77 64	73 57	40 36	36 34	68 57	69 41	70 44	76 50
23	72 58	70 43	60 42	83 51	90 62	83 49	95 70	87 71	87 67	72 58	44 24	38 33	72 58	70 43	60 42	83 51
24	75 45	60 50	86 68	81 48	85 43	95 65	95 73	94 65	72 66	50 46	50 22	41 31	75 45	60 50	86 68	81 48
25	48 31	76 49	48 38	60 44	87 58	82 69	93 74	88 70	86 70	52 44	44 35	43 35	48 31	76 49	48 38	60 44
26	58 26	52 38	56 32	70 37	90 60	86 66	93 70	89 68	81 72	59 33	50 36	46 26	58 26	52 38	56 32	70 37
27	68 31	41 31	72 51	76 50	88 61	81 75	92 75	87 63	86 72	67 53	57 43	56 23	68 31	41 31	72 51	76 50
28	42 32	75 37	78 57	74 59	85 63	86 69	90 71	84 59	84 72	58 53	47 31	62 37	42 32	75 37	78 57	74 59
29	36 28	72 53	60 36	77 58	84 62	89 69	78 70	89 60	83 54	61 54	45 27	61 48	36 28	72 53	60 36	77 58
30	35 23		55 36	78 58	82 61	90 73	83 68	90 61	62 44	63 58	44 30	55 45	35 23		55 36	78 58
31	18 36		63 37		72 51		83 66	89 69		77 63		52 31	18 36		63 37	
AV.	52 34	57 34	64 41	74 51	80 57	86 64	87 67	90 68	85 66	72 51	55 38	50 34	AV.	43 22	52 34	62 41
REAR	43 22	45 22	52 35	62 47	68 52	76 64	81 75	86 64	75 68	61 46	46 33	41 31	43 22	45 22	52 35	62 47
STA AV	47 28	52 31	60 37	72 50	80 57	86 64	89 68	89 67	82 60	73 48	62 38	51 31	47 28	52 31	60 37	72 50

NOTES: Temperature data from National Weather Service at Holly Springs, MS, Mississippi. STA AV is for 16 yr (1957-72) record period.

Cooperative Research Project of USDA, University of Mississippi, and the Mississippi Agricultural and Forestry Experiment Station

1972	DAILY PRECIPITATION (inches)											CIFCBE, MISSISSIPPI	WATERBEE W-4C
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	2.61	0.0	0.85	0.0	0.12	0.0	0.08	0.0	0.0	0.0	0.70	0.0	
2	0.0	0.0	0.53	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.47	0.0	
3	0.58	0.09	0.0	0.83	0.0	0.0	4.98	0.0	0.10	0.0	0.0	0.0	
4	0.48	0.0	0.20	0.0	0.0	0.0	0.21	0.0	0.78	0.0	0.0	0.05	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	
6	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	3.10	0.33	
7	0.0	0.0	0.71	0.12	2.01	0.0	0.0	0.0	0.0	0.0	2.61	0.04	
8	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.12	0.46	0.0	0.0	2.09	
9	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.71	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.31	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.48	
12	0.0	0.24	0.0	0.0	0.25	0.0	0.0	0.43	0.0	0.0	0.0	0.36	
13	0.0	0.07	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	1.21	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.06	0.36	0.0	0.0	0.03	0.0	1.08	
15	0.0	0.0	1.04	0.46	0.0	2.19	0.0	0.0	0.0	0.0	0.0	0.11	
16	0.0	0.00T	0.13	0.02	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.45	0.45	0.84	0.0	
19	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.47	0.35	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	
21	0.72	0.0	0.03	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
22	11.11	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	1.10	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.09	0.0	0.0	
24	0.23	0.0	0.49	0.0	0.15	0.0	0.23	0.85	0.41	0.0	0.28	0.0	
25	0.0	0.00T	0.19	0.0	0.0	1.79	0.0	0.25	0.0	0.0	0.56	0.0	
26	0.0	0.07	0.08	0.0	0.0	0.27	0.15	0.0	0.0	0.0	0.0	0.0	
27	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.50	0.0	
28	0.90	0.0	0.23	0.78	0.0	0.96	2.09	0.0	0.06	0.0	0.001	0.0	
29	0.04	0.0	0.67	0.59	0.0	1.17	0.0	0.67	0.03	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.75	0.0	0.11	0.0	0.0	0.04	0.0	1.41	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	6.28	1.15	4.65	3.64	4.56	5.27	5.68	2.91	3.67	3.48	11.54	8.53	
STA AV	3.86	4.59	4.73	4.83	4.05	3.22	4.09	3.64	4.56	2.58	4.58	5.35	

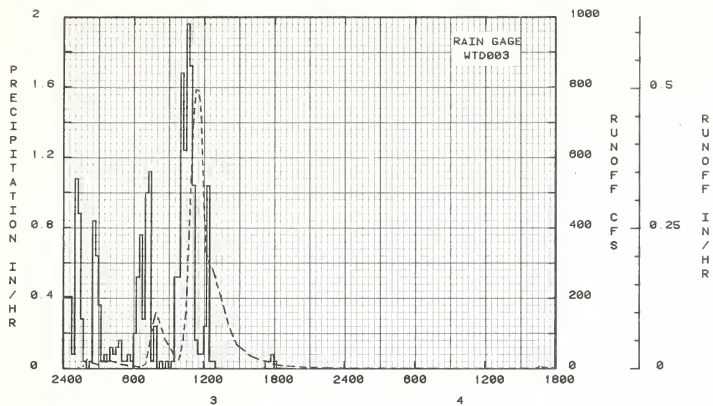
NOTES: Daily precipitation values Thiessen weighted from rain gages 7, 8 and 16. STA AV based on 16 yr (1957-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)											OXFORD, MISSISSIPPI	WATERBEE W-4C
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	8.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.91	
2	3.10	0.0	1.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.52	0.51	
3	0.76	0.0	0.0	0.42	0.0	0.0	82.70	0.0	0.0	0.0	0.0	0.91	
4	2.54	0.0	0.0	0.30	0.0	0.0	1.17	0.0	0.0	0.0	0.0	0.91	
5	0.02	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.51	
6	0.0	0.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.29	0.73	
7	0.0	3.08	1.56	0.0	1.64	0.0	0.0	0.0	0.0	0.0	105.73	0.40	
8	0.0	0.0	0.96	0.0	13.19	0.0	0.0	0.0	0.62	0.0	0.58	36.49	
9	0.94	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.69	6.55	
10	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	65.89	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.95	0.0	0.0	0.09	5.16	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	4.03	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	5.67	2.35	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	13.17	
15	0.0	0.0	1.65	0.0	0.0	5.89	0.0	0.0	0.0	0.0	0.38	13.50	
16	0.0	0.0	3.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	1.06	
17	0.0	0.0	0.01	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.10	0.68	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	1.57	0.68	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.0	3.96	0.68	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.68	
21	1.20	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.68	
22	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.61	0.29	0.68	0.68	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.29	0.68	
24	0.13	0.0	0.0	0.0	0.0	0.0	0.0	2.45	0.0	0.0	0.42	0.57	
25	0.07	0.0	0.38	0.0	0.0	2.21	0.0	0.18	0.0	0.0	10.39	0.47	
26	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.57	0.47	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61	3.27	0.47	
28	2.89	0.0	0.0	0.0	0.0	3.51	4.27	0.0	0.0	0.0	5.88	0.47	
29	0.02	0.0	2.51	0.0	0.0	0.0	7.87	0.0	0.0	0.0	0.57	0.47	
30	0.0	0.0	0.0	0.0	0.58	0.0	0.06	0.0	0.02	1.35	0.75	11.47	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	2.12	0.0	
MEAN	0.6461	0.0325	0.3114	0.1134	0.5072	0.3562	3.1113	0.1598	0.0444	0.0651	5.4057	5.6502	
INCBES	0.302	0.014	0.145	0.051	0.237	0.175	1.453	0.075	0.020	0.030	2.445	2.639	
STA AV	0.591	0.956	0.808	0.666	0.273	0.116	0.267	0.206	0.302	0.108	0.572	0.802	

NOTES: To convert discharge in CFS to IVDAY, multiply by 0.01506. STA AV based on 16 yr (1957-72) record period. Quality of records: Good, estimated to be within 10% of actual.

1972 SELECTED RUNOFF EVENT				CYFORE, MISSISSIPPI				WATERSHED W-4C			
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)		Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 3 - 4, 1972											
7- 3	RG WTD003	0.0	7- 3	RG WTD003	0.0	0.0	7- 3	118	0.0	0.0	
	0.0	0.0		1	0.0	0.0		122	2.767	0.0001	
				45	0.4091	0.30		142	4.469	0.0005	
				100	0.0800	0.32		148	10.219	0.0014	
				115	1.0800	0.59		154	15.347	0.0023	
				130	0.6800	0.61					
WATERSHED CONDITIONS:											
About 14% of area in cultivation, primarily cotton, ryegrass, corn and soybeans, poor to fair cover; 41% in pasture and idle land with fair to good cover; 44% in woods, good cover; 1% bare gullies.											
				145	0.2800	0.88		204	25.412	0.0047	
				200	0.0400	0.85		232	14.843	0.0106	
				215	0.0	0.89		300	10.219	0.0163	
				230	0.0400	0.90		330	21.502	0.0153	
				245	0.8397	1.11		344	17.441	0.0221	
				300	0.6400	1.27		358	21.502	0.0250	
				315	0.3600	1.36		430	16.552	0.0314	
				330	0.0400	1.37		500	10.911	0.0357	
				345	0.0800	1.39		530	6.290	0.0367	
				400	0.0400	1.40		600	5.962	0.0405	
				415	0.1200	1.43		630	4.465	0.0425	
				430	0.0600	1.45		648	6.531	0.0435	
				445	0.1200	1.48		706	15.650	0.0456	
				500	0.1600	1.52		716	48.128	0.0450	
				515	0.0400	1.53		726	76.755	0.0555	
				530	0.0400	1.54		736	112.014	0.0656	
				545	0.0800	1.56		746	139.320	0.0768	
				600	0.0400	1.57		756	157.000	0.0947	
				615	0.2000	1.62		808	143.660	0.1133	
				630	0.5200	1.75		824	114.000	0.1348	
				645	0.7600	1.54		844	80.584	0.1551	
				700	0.2800	2.01		916	51.752	0.1773	
				715	1.0000	2.26		934	32.000	0.1652	
				730	1.1200	2.54		954	24.000	0.1910	
				745	0.0400	2.55		1000	35.606	0.1529	
				800	0.2800	2.61		1016	80.564	0.2026	
				815	0.0	2.61		1030	161.520	0.2204	
				830	0.0400	2.62		1034	216.375	0.2283	
				845	0.0	2.62		1044	377.152	0.2585	
				900	0.0400	2.63		1054	532.937	0.3065	
				515	0.0	2.63		1104	694.528	0.3716	
				930	0.0400	2.64		1118	793.426	0.4792	
				945	0.5200	2.77		1134	789.936	0.6131	
				1000	0.5200	2.90		1146	657.537	0.7061	
				1015	1.6600	3.32		1156	517.000	0.7687	
				1030	1.2400	3.63		1200	465.656	0.7504	
				1045	1.9600	4.12		1212	332.358	0.8403	
				1100	1.7200	4.55		1232	287.534	0.5045	
				1115	1.0400	4.61		1244	264.755	0.5941	
				1130	0.1600	4.65		1300	257.655	0.5866	
				1145	0.0800	4.67		1326	206.455	1.0492	
				1200	0.0800	4.69		1344	170.660	1.0848	
				1215	0.2400	4.95		1406	126.432	1.1190	
				1230	1.0400	5.21		1430	51.336	1.1465	
				1245	0.0400	5.22		1452	66.260	1.1645	
				1300	0.0400	5.23		1530	49.936	1.1877	
				1700	0.0	5.23		1558	35.606	1.2002	
				1715	0.0	5.23		1642	25.412	1.2143	
				1730	0.0407	5.24		1714	21.502	1.2221	
				1745	0.0400	5.25		1734	19.347	1.2264	
				1800	0.0800	5.27		1758	11.633	1.2303	
				1815	0.0400	5.28		1844	7.687	1.2349	
				1830	0.0	5.28		1946	5.582	1.2393	
				1845	0.0	5.28		2044	2.767	1.2419	
				1900	0.0	5.28		2144	2.400	1.2435	
								2300	1.435	1.2450	
								2342	1.159	1.2456	
								2400	2.056	1.2459	
								46	0.906	1.2466	
								202	0.906	1.2473	
								332	0.906	1.2482	
								516	0.290	1.2489	
								7- 4			

NOTES: To convert runoff in CFS to IN/Hr, multiply by 0.000628. Thiessen weighted storm rainfall, rain gages 7, 8 and 18. For 30-day antecedent F and Q, see tables on p. 62.001-2.



EVENT OF JULY 3 - 4, 1972
CXPB0, MISSISSIPPI WATERSHED W-4C

LOCATION: Marshall Co., Miss.; 6.1 mi. SW of Holly Springs, on State Highway No. 4; Willie Wilkins Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 1000.00 acres 1.56 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										GIFORD, MISSISSIPPI				WATERHILL #5			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual			
	P	6.34	1.32	4.76	4.05	5.05	6.91	9.16	3.38	4.01	3.15	11.26	8.58	68.39			
1972	P	1.199	0.186	0.789	0.357	0.774	1.484	3.134	0.388	0.131	0.059	5.429	5.621	15.552			
STA AV	P	3.92	4.59	4.90	4.91	4.19	3.43	4.01	3.92	4.54	2.49	4.62	5.50	51.04			
	P	1.349	1.870	1.793	1.387	0.718	0.421	0.465	0.394	0.484	0.202	1.068	1.863	12.014			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
Maximum Discharge		Maximum Volume for Selected Time Interval															
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days									
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1972	7- 3	1.003	7- 3	0.763	7- 3	1.076	11- 6	1.888	11- 6	2.807	11- 6	3.336	11- 6	3.457 12- 8 4.589			
MAXIMUMS FOR PERIOD OF RECORD																	
	2-21	1.626	2-21	1.152	3- 4	1.630	3- 4	2.120	11- 6	2.807	11- 6	3.336	1-30	3.720 1-27 5.250			
1971	1971		1971		1964	1964	1964	1972	1972	1972	1972	1957	1957	1957			

NOTES: Watershed conditions About 291 in cultivation (cotton, ryegrass and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 443 in pasture and idle land, good cover April to October with fair cover remainder of year; 263 in woods, good cover; 18 bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1972. About 33% of drainage area above small desilting and retention dams. Gaging station relocated upstream 10-169 reducing area from 1130 to 1000 acres. For war of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, AES, SWC, January 1960, p. 62-2-3. Monthly precipitation Thiessen weighted from rain gages 8 and 33. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Rolly Springs, 48, Mississippi.

1572		DAILY PRECIPITATION (inches)					OXFORD, MISSISSIPPI			WATERSHED W-5			
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.73			0.76	0.0	0.23	0.0	0.07	0.0	0.0	0.0	0.66	0.0
2	0.0			0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0
3	0.58		0.10	0.0	0.85	0.0	0.0	4.70	0.0	0.0	0.0	0.0	0.0
4	0.51		0.0	0.19	0.0	0.0	0.0	0.21	0.0	0.62	0.0	0.0	0.04
5	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25
6	0.0		0.68	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	3.08	0.24
7	0.0		0.0	0.69	0.12	1.98	0.0	0.0	0.0	0.0	0.0	2.45	0.03
8	0.0		0.0	0.0	0.52	0.0	0.0	0.14	0.0	0.43	0.0	0.0	0.0
9	0.52		0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.94
10	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	1.37
11	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.44
12	0.0		0.24	0.0	0.0	0.19	0.0	0.0	0.70	0.0	0.0	0.0	0.40
13	0.0		0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.11	0.0
14	0.0		0.0	0.0	0.0	0.0	0.50	0.55	0.0	0.0	0.0	1.08	0.0
15	0.0		0.0	1.36	0.59	0.0	2.52	0.0	0.0	0.0	0.0	0.0	0.15
16	0.0		0.03	0.21	0.01	0.51	0.0	0.0	0.0	0.0	0.02	0.0	0.0
17	0.0		0.05	0.0	0.0	0.0	0.0	0.0	0.98	0.0	0.0	0.0	0.0
18	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.44	0.87	0.0
19	0.13		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.43	0.37
20	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.45		0.0	0.04	0.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
22	0.0		0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0
23	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.05	0.0	0.0	0.0
24	0.34		0.0	0.54	0.0	0.28	0.0	0.10	1.56	6.46	0.0	0.29	0.0
25	0.0		0.01	0.25	0.0	0.0	2.60	0.0	0.57	0.0	0.0	0.59	0.0
26	0.0		0.09	0.04	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0
27	0.05		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.81	0.54	0.0
28	0.98		0.0	0.07	0.94	0.0	0.89	1.80	0.0	0.05	0.0	0.01	0.0
29	0.05		0.0	0.0	0.58	0.60	0.0	0.26	0.0	0.63	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.76	0.0	0.17	0.0	0.0	0.79	0.0	1.53
31	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		6.34	1.32	4.76	4.05	5.09	6.51	9.16	3.38	4.01	3.15	11.26	8.98
STA #7		3.92	4.59	4.90	4.91	4.19	3.43	4.01	3.92	4.54	2.45	4.62	5.50

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p. 62.001-1). Daily precipitation values Thiessen weighted from rain gages 8 and 33. STA AV based on 16 yr (1957-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)													OXFORD, MISSISSIPPI WATERSHE W-5
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	9.98	0.08	0.19	0.08	0.0	0.19	0.0	0.22	0.0	0.43	0.29	0.32	
2	8.53	0.08	4.34	0.0	0.0	0.19	0.0	0.22	0.0	0.0	5.56	0.34	
3	1.94	0.0	0.58	2.37	0.0	0.08	111.09	0.22	0.0	0.0	0.23	0.37	
4	7.19	0.0	0.0	2.85	0.0	0.0	5.25	0.22	0.08	0.0	0.15	0.42	
5	3.03	0.0	0.0	0.94	0.0	0.05	0.69	0.22	0.0	0.0	0.17	0.28	
6	1.27	2.02	0.08	0.23	0.0	0.10	0.30	0.22	0.0	0.0	33.09	3.02	
7	0.86	0.77	1.95	0.15	2.47	0.13	0.11	0.22	0.0	0.0	111.80	0.36	
8	0.78	0.22	2.73	0.15	24.12	0.15	0.0	0.22	0.0	0.0	0.91	51.68	
9	2.30	0.22	0.36	0.15	1.39	0.13	0.0	0.22	0.0	0.0	0.42	11.80	
10	1.45	0.22	0.0	0.15	0.34	0.13	0.0	0.22	0.0	0.0	0.32	75.29	
11	0.32	0.22	0.0	0.15	0.13	0.15	0.0	0.31	0.0	0.0	0.30	10.04	
12	0.15	0.22	0.0	0.15	0.15	0.08	0.0	0.72	0.0	0.0	0.37	7.16	
13	0.13	0.22	0.0	0.15	0.15	0.05	0.0	0.22	0.0	0.0	11.16	3.62	
14	0.10	0.22	0.05	0.15	0.08	0.13	0.0	0.22	0.0	0.0	0.68	19.38	
15	0.13	0.22	8.01	0.15	0.11	18.54	0.0	0.22	0.0	0.0	0.30	13.84	
16	0.15	0.22	9.66	0.15	0.35	0.14	0.0	0.22	0.0	0.0	0.30	3.17	
17	0.13	0.22	1.07	0.15	0.28	0.0	0.0	0.22	0.52	0.0	0.25	3.06	
18	0.05	0.22	0.30	0.15	0.22	0.0	0.0	0.22	0.54	0.00	2.58	2.01	
19	0.15	0.22	0.08	0.15	0.22	0.05	0.0	0.22	0.0	0.06	12.00	3.02	
20	0.23	0.22	0.08	0.15	0.22	0.05	0.0	0.22	0.0	0.0	0.36	0.97	
21	0.13	0.22	0.08	1.03	0.19	0.05	0.0	0.22	0.0	0.0	0.14	0.33	
22	0.05	0.22	0.15	0.39	0.15	0.05	0.0	0.22	0.0	0.19	0.10	0.15	
23	0.0	0.22	0.15	0.0	0.19	0.05	0.0	0.22	0.0	0.35	0.08	0.19	
24	0.05	0.22	0.13	0.0	0.13	0.0	0.0	7.30	0.0	0.0	0.11	0.21	
25	0.10	0.22	2.09	0.0	0.08	31.79	0.0	3.15	0.0	0.0	22.79	0.17	
26	0.10	0.22	0.16	0.0	0.0	0.27	0.0	0.19	0.0	0.0	1.51	0.19	
27	0.20	0.22	0.16	0.0	0.0	0.0	0.0	0.0	0.22	9.52	0.23		
28	8.59	0.22	0.22	0.15	0.0	9.73	1.85	0.0	0.0	0.0	11.40	0.21	
29	1.83	0.22	0.22	5.29	0.08	0.0	11.03	0.0	2.83	0.0	0.51	0.21	
30	0.50	0.19	0.0	1.22	0.0	0.62	0.0	1.14	1.10	0.37	22.74		
31	0.0	0.15	0.0	0.15	0.0	0.40	0.0	0.0	0.14	0.14	1.34		
MEAN	1.6255	0.2691	1.0659	0.4999	1.0486	2.0783	4.2478	0.5263	0.1833	0.0804	7.6036	7.6180	
INCHES	1.199	0.186	0.789	0.357	0.774	1.484	3.138	0.388	0.131	0.059	5.429	5.621	
STA AV	1.349	1.870	1.793	1.387	0.718	0.421	0.465	0.394	0.484	0.202	1.068	1.863	

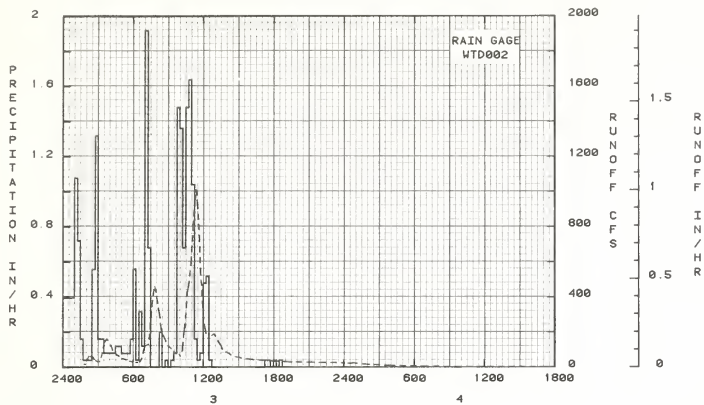
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.02380. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 16 yr (1957-72) record period.

1972 SELECTED HURFPP EVENT													OXFORD, MISSISSIPPI WATERSHE W-5
ANTECEDENT CONDITIONS						RAINFALL				RUBCF			
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)			
EVENT OF JULY 3 - 4, 1972													
HG WTD002													
7- 3	0.0	0.000	7- 3	1	0.0	0.0	7- 3	142	0.221	0.0			
				45	0.3555	0.29		146	0.550	0.0			
				100	0.4000	0.39		150	18.426	0.006			
				115	1.0800	0.66		156	20.466	0.0025			
				130	0.7200	0.84		206	44.000	0.0079			
WATERSHED CONDITIONS:													
About 25% of area in cultivation, primarily cotton, ryegrass and soybeans, poor to fair cover; 44% in pasture and idle land with fair to good cover; 26% in woods, good cover; 1% in bare gullies.													
				145	0.1600	0.88		214	64.352	0.0150			
				200	0.0400	0.89		222	62.000	0.0233			
				215	0.0400	0.90		228	64.352	0.0257			
				230	0.0400	0.91		234	60.200	0.0360			
				245	0.5600	1.05		242	45.860	0.0430			
				300	1.3200	1.38		250	39.200	0.0456			
				315	0.1600	1.42		258	34.328	0.0534			
				330	0.1600	1.46		302	33.726	0.0556			
				345	0.0800	1.48		310	35.552	0.0602			
				400	0.0810	1.50		316	56.600	0.0648			
				415	0.0810	1.52		324	84.100	0.0741			
				430	0.0800	1.54		328	112.100	0.0806			
				445	0.1200	1.57		332	127.128	0.0885			
				500	0.1200	1.60		336	145.600	0.0575			
				515	0.0794	1.62		342	155.152	0.1128			
				530	0.0794	1.64		346	161.526	0.1234			
				545	0.0794	1.66		352	155.200	0.1387			
				600	0.1600	1.70		406	127.128	0.1715			
				615	0.5600	1.84		416	55.500	0.1904			
				630	0.0400	1.85		436	73.584	0.2189			
				645	0.3200	1.93		448	64.352	0.2325			
				700	0.1200	1.96		506	51.200	0.2497			
				715	1.5200	2.44		524	44.000	0.2639			
				730	0.6800	2.61		542	37.355	0.2760			
				815	0.0	2.61		600	30.936	0.2862			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000992. Thiessen weighted storm rainfall, rain pages 8 and 33. For 30-day antecedent P and Q, see tables on pp. 62.002-1 and 2.

1972 SELECTED RUNOFF EVENT				CYPRESS, MISSISSIPPI				WATERSHED W-5			
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Date (cfs)	Acc. (inches)	
EVENT OF JULY 3 - 4, 1972 (CONTINUE)											
7- 3	830	0.2000	2.66	7- 3	614	29.438	0.2531				
	845	0.0	2.66			25.438	0.2508				
	900	0.0400	2.67			33.136	0.3042				
	915	0.0	2.67			51.800	0.3113				
	930	0.0400	2.68			53.900	0.3205				
	945	0.0800	2.70			702	121.826	0.3351			
	1000	1.4800	3.07			708	126.326	0.3476			
	1015	1.3600	3.41			720	132.000	0.3731			
	1030	0.6800	3.58			728	224.938	0.3966			
	1045	1.4800	3.55			734	317.600	0.4235			
	1100	1.6400	4.36			738	353.950	0.4460			
	1115	1.0400	4.62			744	422.750	0.4836			
	1130	0.1600	4.66			748	444.334	0.5122			
	1145	0.0400	4.67			752	463.164	0.5421			
	1200	0.0800	4.65			758	430.000	0.5671			
	1215	0.8600	4.81			806	366.135	0.6395			
	1230	0.5200	4.94			818	261.868	0.7035			
	1245	0.0400	4.95			826	210.000	0.7355			
	1630	0.0	4.95			838	178.800	0.7747			
	1645	0.0	4.95			850	147.200	0.8065			
	1700	0.0	4.95			900	123.255	0.8290			
	1715	0.0	4.95			916	105.800	0.8592			
	1730	0.0400	4.56			930	90.400	0.8820			
	1745	0.0400	4.57			944	79.200	0.9014			
	1800	0.0	4.57			958	74.255	0.9192			
	1815	0.0400	4.58			1004	64.352	0.9262			
	1830	0.0	4.98			1014	56.000	0.9392			
	1845	0.0400	4.59			1018	143.200	0.9471			
	1900	0.0	4.99			1022	155.435	0.9583			
						1028	251.795	0.9808			
						1034	344.984	1.0109			
						1040	433.543	1.0486			
						1048	491.667	1.1055			
						1100	625.187	1.2224			
						1110	634.760	1.3415			
						1118	947.500	1.4585			
						1124	1011.186	1.5575			
						1130	933.500	1.6554			
						1140	785.000	1.7520			
						1146	556.312	1.8575			
						1156	367.725	1.9327			
						1202	274.068	1.9650			
						1214	192.784	2.0111			
						1226	165.736	2.0465			
						1232	165.736	2.0632			
						1244	180.200	2.0574			
						1250	188.300	2.1160			
						1254	191.000	2.1285			
						1304	179.300	2.1593			
						1318	146.400	2.1565			
						1340	103.700	2.2420			
						1358	89.000	2.2707			
						1422	70.728	2.3023			
						1444	60.800	2.3262			
						1514	53.600	2.3546			
						1546	48.200	2.3816			
						1614	44.600	2.4030			
						1654	40.400	2.4312			
						1718	38.000	2.4467			
						1758	35.552	2.4711			
						1930	30.426	2.5213			
						2100	26.466	2.5651			
						2238	26.500	2.6050			
						2322	26.000	2.6284			
						2400	23.500	2.6440			
						7- 4	4	22.500	2.6455		
						22	23.000	2.6522			
						34	23.000	2.6568			
						42	25.500	2.6800			
						208	15.726	2.6893			
						422	8.639	2.7162			
						712	4.222	2.7343			
						1002	2.659	2.7440			
						1124	2.423	2.7474			
						2400	1.003	2.7688			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000552. Thiessen weighted storm rainfall, rain gages 8 and 33. For 30-day antecedent P and Q, see tables on pp. 62.002-1 and 2.



EVENT OF JULY 3 - 4, 1972
CXPCBD, MISSISSIPPI WATERSHED W-5

LOCATION: Marshall Co., Miss.; 7.8 mi. SW of Roly Springs on County road; Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 32100.00 acres 50.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-17															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1972	P	6.15	1.20	4.39	4.35	5.15	5.86	11.30	2.90	4.23	3.33	10.49	8.57	66.31															
	Q	0.661	0.242	0.546	0.475	0.753	1.012	3.834	0.622	0.326	0.278	3.258	4.566	16.572															
STA AV	P	3.91	4.61	4.77	4.92	4.30	3.41	4.36	3.89	4.26	2.45	4.55	5.50	50.53															
	Q	1.029	1.396	1.422	1.138	0.804	0.451	0.659	0.521	0.472	0.295	0.825	1.344	10.355															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
Maximum Discharge															Maximum Volume for Selected Time Interval														
		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1972	7- 3	0.265	7- 3	0.265	7- 3	0.529	7- 3	1.553	7- 3	2.413	7- 3	2.719	7- 3	2.857	12- 8	3.567													
MAXIMUMS FOR PERIOD OF RECORD																													
		7- 3	0.265	7- 3	0.265	7- 3	0.529	7- 3	1.553	7- 3	2.413	7- 3	2.719	7- 3	2.857	3-24	4.680												
1972			1972		1972		1972		1972		1972		1972		1972		1565												

NOTES: Watershed conditions: About 16% in cultivation (cotton, corn, soybeans and ryegrass), fair cover November to March, poor cover April and May improving to good by mid-July; 28% in pasture and idle land, good cover April to October with fair cover remainder of year; 48% in woods, good cover; 1% in bare gullies; 5% urban. Percentages of total area in various land use categories are based on the latest surveys completed 1970-73. About 15% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.5-5. Monthly precipitation Thiessen weighted from 21 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, MS, Mississippi.

1972 DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-17	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	2.35	0.0	0.76	0.0	0.18	0.0	0.31	0.07	0.0	0.0	0.59	0.0	
2	0.0	0.01	0.48	0.0	0.0	0.0	0.30	0.0	0.14	0.0	0.44	0.0	
3	0.54	0.10	0.0	0.98	0.0	0.0	5.42	0.03	0.01	0.0	0.0	0.0	
4	0.50	0.0	0.23	0.0	0.0	0.0	0.31	0.0	0.74	0.0	0.0	0.02	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	
6	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	2.55	0.18	
7	0.0	0.0	0.46	0.12	1.92	0.0	0.0	0.0	0.0	0.0	2.40	0.04	
8	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.02	0.32	0.0	0.0	2.18	
9	0.60	0.0	0.0	0.0	0.0	0.0	0.001	0.61	0.0	0.0	0.0	1.16	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	1.08	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.40	
12	0.0	0.21	0.0	0.0	0.19	0.0	0.0	0.53	0.0	0.0	0.0	0.42	
13	0.0	0.0	0.13	0.0	0.01	0.0	0.0	0.0	0.0	0.0	1.08	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.19	0.30	0.0	0.0	0.001	0.0	1.22	
15	0.0	0.0	1.15	0.86	0.0	2.55	0.0	0.0	0.0	0.0	0.0	0.20	
16	0.0	0.02	0.17	0.01	0.58	0.0	0.0	0.0	0.0	0.01	0.0	0.0	
17	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.44	0.62	0.61	0.0	
19	0.19	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.43	0.34	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.72	0.0	0.01	0.93	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.03	
22	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.84	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.08	0.07	0.0	0.0	
24	0.27	0.0	0.56	0.0	0.30	0.0	0.20	0.39	0.40	0.0	0.26	0.0	
25	0.0	0.01	0.20	0.0	0.0	1.78	0.0	0.15	0.0	0.0	0.57	0.0	
26	0.0	0.12	0.07	0.0	0.0	0.28	0.08	0.0	0.10	0.0	0.0	0.0	
27	0.09	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.45	0.65	0.55	0.0	
28	0.86	0.0	0.14	0.93	0.0	1.06	3.01	0.0	0.05	0.0	0.01	0.0	
29	0.04	0.0	0.0	0.52	0.74	0.0	1.15	0.0	0.74	0.04	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.62	0.0	0.22	0.0	0.0	0.86	0.0	1.54	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	6.15	1.20	4.39	4.35	5.15	5.86	11.30	2.90	4.23	3.33	10.49	8.57	
STA AV	3.91	4.61	4.77	4.92	4.30	3.41	4.36	3.89	4.26	2.45	4.55	5.50	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-0C (p. 62.001-1). Daily precipitation values Thiessen weighted from rain gages 2, 4 thru 9, 13 thru 15, 17 thru 20, 22, 25, 28 thru 31 and 33. STA AV based on 16 yr (1957-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)												OFCRD, MISSISSIPPI WATERSHED W-17			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	138.3	12.2	11.4	9.9	13.6	10.5	10.8	12.7	10.7	0.0	11.4	19.9			
2	154.6	11.6	47.3	9.9	12.9	10.5	12.7	13.1	10.9	23.6	63.2	18.6			
3	17.2	11.1	18.4	31.8	12.2	5.9	3624.0	13.6	11.3	11.6	12.5	17.6			
4	97.5	11.1	15.4	58.3	11.6	9.5	227.0	12.9	12.5	11.8	10.5	16.7			
5	18.4	11.1	15.1	16.0	11.1	5.7	58.2	12.2	12.5	11.8	10.1	16.4			
6	11.6	20.2	13.8	14.3	10.9	9.7	25.2	12.0	11.6	11.6	207.4	25.0			
7	10.5	16.3	15.1	14.8	23.5	9.5	16.1	11.6	11.8	11.6	2476.2	18.2			
8	9.9	11.3	27.9	14.8	627.1	9.5	15.5	12.0	13.8	11.3	70.6	982.8			
9	35.6	10.9	14.8	13.8	21.9	9.7	14.8	25.3	12.7	10.5	30.5	440.0			
10	16.3	10.9	13.6	13.4	16.8	9.9	13.1	146.3	12.0	9.7	19.9	1920.2			
11	10.9	10.5	13.4	13.8	13.9	9.9	12.2	211.8	11.8	9.3	19.2	195.6			
12	9.7	11.1	12.9	14.3	13.4	9.9	11.1	82.8	12.0	9.3	19.2	162.5			
13	9.5	11.1	13.1	14.3	13.2	9.9	10.3	40.3	12.4	9.7	179.0	172.3			
14	9.5	10.5	13.4	13.6	10.9	11.4	14.6	12.4	12.4	9.5	35.3	385.0			
15	9.3	10.7	17.0	24.4	10.3	467.8	12.3	13.1	12.4	9.9	17.4	622.3			
16	9.5	10.7	249.2	41.5	11.2	17.1	10.9	12.4	12.4	9.9	15.3	57.4			
17	9.5	10.7	18.7	12.9	10.6	10.5	12.4	10.9	12.4	5.5	19.4	41.9			
18	9.3	10.7	15.4	11.3	10.5	12.0	10.9	12.0	26.5	10.8	43.2	41.5			
19	9.3	10.5	14.1	10.9	10.3	10.5	10.9	12.4	15.6	11.2	200.5	63.7			
20	9.1	10.3	14.1	10.9	10.3	9.5	10.5	12.4	12.5	9.9	28.9	43.5			
21	71.1	10.3	14.3	35.4	10.3	5.7	10.5	12.4	11.8	9.9	18.9	32.1			
22	18.2	10.3	14.1	32.1	10.3	9.5	10.7	12.4	11.6	11.4	17.3	28.8			
23	13.6	10.3	13.6	12.9	10.3	9.5	10.5	12.0	12.5	11.4	16.4	29.2			
24	12.9	10.3	14.3	11.3	10.3	11.7	11.7	21.4	18.5	10.1	17.4	28.3			
25	13.9	10.3	32.8	11.3	10.3	394.3	16.6	15.8	11.8	10.5	371.6	27.5			
26	11.8	10.3	13.2	11.6	10.3	35.5	10.9	12.5	12.9	11.3	36.7	28.6			
27	12.0	10.3	11.6	10.3	11.4	10.5	11.4	39.6	22.3	73.9	27.9				
28	86.4	10.3	11.5	14.2	10.3	195.1	390.4	11.3	12.9	13.0	286.6	26.1			
29	19.6	10.1	14.8	119.2	10.6	12.5	509.4	11.6	26.9	10.9	36.0	27.4			
30	13.6		11.8	15.7	33.0	5.7	43.3	11.3	25.5	33.8	27.0	560.7			
31	12.7		10.7		10.3		14.4	10.9		17.3		114.7			
MEAN	28.75	11.24	23.76	21.35	32.78	45.51	166.78	27.06	14.66	12.08	146.45	198.65			
INCHES	0.661	0.242	0.546	0.475	0.753	1.012	3.834	0.622	0.326	0.278	3.256	4.566			
STA AV	1.029	1.396	1.422	1.138	0.804	0.451	0.659	0.472	0.472	0.225	0.625	1.344			

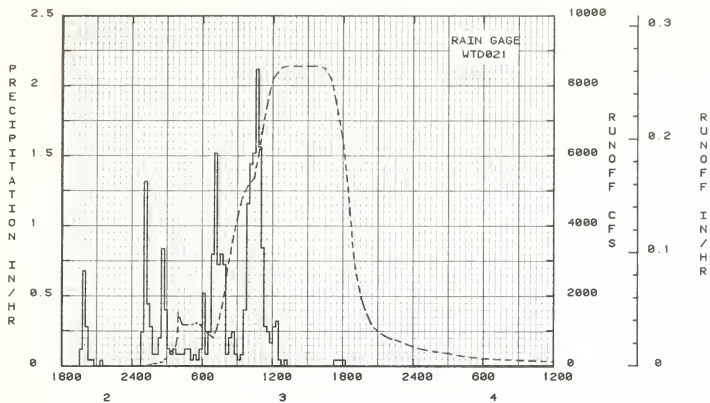
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0007415. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 16 yr (1957-72) record period.

1972 SELECTED RUNOFF EVENT												OFCRD, MISSISSIPPI WATERSHED W-17			
ANTECEDENT CONDITIONS						RAINFALL						RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 2 - 4, 1972															
RG WTD021															
7- 2	0.0		7- 2	1915	0.0	0.0	7- 3	114	16.414	0.0					
7- 3		0.001		1930	0.0001	0.0		122	18.850	0.0001					
				1945	0.1200	0.03		128	33.000	0.0002					
				2000	0.6600	0.20		138	49.313	0.0004					
				2015	0.2800	0.27		150	62.375	0.0007					
WATERSHED CONDITIONS:															
About 18% of area in cultivation, primarily cotton, corn, soybeans and ryegrass, poor to fair cover; 28% in pasture and idle land, fair to good cover; 48% in woods, good cover; 1% in bare gullies; 5% urban.															
				2030	0.0400	0.28		206	70.410	0.0012					
				2045	0.0400	0.29		226	101.000	0.0021					
				2100	0.0	0.29		238	112.606	0.0028					
				2115	0.0	0.29		248	165.006	0.0035					
				2130	0.0400	0.30		300	255.000	0.0048					
				2145	0.0	0.30		314	354.226	0.0070					
				2200	0.0	0.30		328	471.000	0.0100					
				45	0.0	0.30		344	550.526	0.0142					
			7- 3	100	0.2400	0.36		352	606.125	0.0170					
				115	1.3200	0.69		356	1535.559	0.0194					
				130	0.4400	0.80		406	1331.555	0.0268					
				145	0.2600	0.87		416	1187.595	0.0333					
				200	0.0800	0.89		422	1170.080	0.0369					
				215	0.0600	0.91		446	1170.000	0.0514					
				230	0.2000	0.96		506	1175.959	0.0634					
				245	0.8400	1.17		514	1193.959	0.0683					
				300	0.3502	1.27		526	1223.959	0.0757					
				315	0.1200	1.30		534	1223.959	0.0809					
				330	0.0600	1.32		546	1175.959	0.0883					
				345	0.1200	1.35		600	1051.959	0.0565					
				400	0.0800	1.37		628	921.000	0.1110					
				415	0.0800	1.39		656	800.000	0.1234					
				430	0.0800	1.41		714	1049.687	0.1320					
				445	0.1200	1.44		740	1673.555	0.1502					
				500	0.1200	1.47		754	2123.956	0.1640					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 4 thru 9, 13 thru 15, 17 thru 20, 22, 25, 28 thru 31 and 33. For 30-day antecedent P and Q, see table on p. 62.005 -1 and 2.

1972 SELECTED RUNOFF EVENT				COPPER, MISSISSIPPI				WATERSEEK N-17			
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 2 - 4, 1972 (CONTINUED)											
7- 3	515	0.0400	1.48	7- 3	808	2777.957	0.1817				
	530	0.0600	1.50		818	3713.556	0.2318				
	545	0.0400	1.51		900	4284.660	0.2772				
	600	0.1200	1.54		924	4632.133	0.3333				
	615	0.5200	1.67		952	5154.930	0.4050				
	630	0.0604	1.65		1024	5365.020	0.4920				
	645	0.2400	1.75		1050	6175.977	0.5653				
	700	0.7551	1.110		1110	6859.977	0.5384				
	715	1.5200	2.33		1128	7449.973	0.7031				
	730	0.7200	2.51		1142	7805.977	0.7583				
	745	0.8000	2.71		1200	8209.973	0.8327				
	800	0.7200	2.89		1224	8354.984	0.5349				
	815	0.0600	2.91		1248	8539.977	1.0351				
	830	0.2000	2.56		1316	8504.973	1.1630				
	845	0.2400	3.02		1352	8555.973	1.3211				
	900	0.0600	3.04		1426	8554.977	1.4708				
	915	0.0400	3.05		1502	8555.973	1.2558				
	930	0.0600	3.07		1544	8555.973	1.8147				
	945	0.4000	3.17		1620	8504.973	1.5733				
	1000	1.1600	3.46		1630	8474.973	2.0174				
	1015	1.4400	3.82		1700	8154.973	2.1458				
	1030	1.5200	4.20		1726	7455.973	2.2494				
	1045	2.1200	4.73		1758	6474.973	2.3646				
	1100	1.5600	5.12		1822	5247.816	2.4368				
	1115	0.8400	5.33		1838	4265.984	2.4764				
	1130	0.2600	5.40		1854	3197.956	2.5070				
	1145	0.2400	5.46		1910	2567.956	2.5307				
	1200	0.1600	5.50		1928	2087.956	2.5523				
	1215	0.2800	5.57		1938	1871.956	2.5626				
	1230	0.3200	5.65		1954	1601.955	2.5765				
	1245	0.0400	5.66		2012	1361.959	2.5907				
	1300	0.0	5.66		2026	1187.959	2.5558				
	1315	0.0400	5.67		2040	1073.977	2.4080				
	1630	0.0	5.67		2056	952.805	2.6165				
	1645	0.0	5.67		2134	845.047	2.6346				
	1700	0.0	5.67		2210	758.024	2.6454				
	1715	0.0	5.67		2228	728.537	2.6563				
	1730	0.0400	5.68		2256	678.559	2.6664				
	1745	0.0400	5.69		2328	605.000	2.6770				
	1800	0.0400	5.70		2400	533.657	2.6864				
	1815	0.0400	5.71	7- 4	48	458.126	2.6586				
	1830	0.0	5.71		254	348.059	2.7248				
	1845	0.0	5.71		358	277.715	2.7351				
	1900	0.0	5.71		500	233.000	2.7433				
					600	155.621	2.7500				
					728	171.313	2.7584				
					900	185.237	2.7659				
					1030	128.250	2.7722				
					1158	114.344	2.7777				

NOTES: To convert runoff in CFS to TB/EP, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 4 thru 9, 13 thru 15, 17 thru 20, 22, 25, 28 thru 31 and 33. For 30-day antecedent P and C, see tables on pp. 62.005 -1 and 2.



EVENT OF JULY 2 - 4, 1972
OLDEN, MISSISSIPPI WATERSHED W-17

LOCATION: Marshall Co., Miss.; 4.6 mi. E of Walhill on Connty road; Cuffawa Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 20000.00 acres 31.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						OXFORD, MISSISSIPPI				WATERSHED W-32			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972	P 6.22	1.11	4.28	4.38	6.77	8.02	7.64	1.70	4.96	3.20	11.24	5.33	68.86
	Q 0.828	0.008	0.372	0.283	1.296	2.340	1.555	0.078	0.001	0.066	4.834	6.480	18.140
STA AV	P 3.96	4.65	4.87	4.94	4.72	3.49	4.10	3.76	4.52	2.48	4.70	5.62	51.81
	Q 1.141	1.631	1.666	1.285	1.006	0.353	0.393	0.373	0.413	0.129	0.908	1.702	11.000
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Maximum Discharge				Maximum Volume for Selected Time Interval									
Date		Date		Date		Date		Date		Date		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
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Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date		Vol.		Date		Vol.		Date	
Date		Vol.		Date									

NOTES: Watershed conditions: About 27% in cultivation (cotton, corn, soybeans and rye/grass), fair cover November to March, poor cover April and May improving to good by mid-July; 32% in pasture and idle land, good cover April to October with fair cover remainder of year; 40% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories are based on surveys completed 1971-1972. About 23% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.10-5. Monthly precipitation Thiessen weighted from 10 rain gauges. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 48, Mississippi.

1972 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-32
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	2.65	0.0	0.78	0.0	0.24	0.0	0.05	0.16	0.0	0.0	0.66	0.0	
2	0.0	0.0	0.48	0.0	0.0	0.0	0.37	0.0	0.60	0.0	0.38	0.0	
3	0.64	0.10	0.0	0.93	0.0	0.0	2.93	0.0	0.05	0.0	0.0	0.0	
4	0.51	0.0	0.18	0.0	0.0	0.0	0.31	0.0	0.81	0.0	0.0	0.07	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	
6	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	3.15	0.16	
7	0.0	0.59	0.0	0.11	2.00	0.0	0.0	0.0	0.0	0.0	2.39	0.04	
8	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.12	0.0	0.0	2.15	
9	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.56	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.25	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	
12	0.0	0.21	0.0	0.0	0.23	0.0	0.0	0.61	0.0	0.0	0.0	0.42	
13	0.0	0.0	0.08	0.0	0.007	0.0	0.0	0.0	0.0	0.0	1.07	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.42	0.58	0.0	0.0	0.03	0.0	1.37	
15	0.0	0.0	1.20	0.88	0.0	2.95	0.0	0.0	0.0	0.0	0.0	0.20	
16	0.0	0.02	0.21	0.01	0.64	0.0	0.0	0.0	0.03	0.11	0.0	0.0	
17	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	1.33	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.40	0.34	0.56	0.0	
19	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.46	0.36	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.30	0.0	0.02	0.90	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.03	
22	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.13	0.03	0.0	0.0	
24	0.31	0.0	0.41	0.0	1.36	0.0	0.14	0.02	0.33	0.0	0.29	0.0	
25	0.0	0.0	0.20	0.0	0.0	3.60	0.0	0.43	0.0	0.0	0.94	0.0	
26	0.0	0.10	0.06	0.0	0.0	0.19	0.0	0.0	0.19	0.0	0.0	0.0	
27	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.79	0.53	0.0	
28	0.08	0.0	0.05	1.04	0.85	0.0	1.32	0.0	0.06	0.0	0.007	0.0	
29	0.06	0.0	0.0	0.50	0.78	0.0	1.57	0.0	0.86	0.05	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.97	0.0	0.35	0.0	0.0	0.95	0.0	1.63	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	6.22	1.11	4.28	4.38	6.77	8.02	7.64	1.70	4.56	3.20	11.24	9.33	
STA AV	3.96	4.65	4.87	4.94	4.72	3.49	4.10	3.76	4.52	2.48	4.70	5.62	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-0C (p.62.001-1). Daily precipitation values Thiessen weighted from rain gauges 3, 10 thru 14, 20, 21, 24 and 26. STA AV based on 16 yr (1957-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)												OIFCRD, MISSISSIPPI		WATERSHED W-32	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	220.8	0.1	0.1	0.0	0.0	0.1	0.1	0.8	0.0	0.3	2.6	0.2			
2	180.4	0.0	33.2	0.0	0.0	0.1	3.4	0.0	0.2	0.3	64.4	0.2			
3	8.2	0.0	1.2	8.3	0.0	0.1	1045.0	0.0	0.1	0.2	2.5	0.2			
4	161.1	0.0	0.3	27.6	0.0	0.0	78.6	0.0	0.2	0.2	2.2	0.2			
5	12.2	0.0	0.3	1.0	0.0	0.0	26.5	0.0	0.1	0.3	2.1	0.1			
6	0.7	2.8	0.1	0.5	0.0	0.0	2.6	0.0	0.0	0.2	276.5	1.5			
7	0.1	1.7	1.9	0.3	0.0	0.1	0.8	0.0	0.1	0.1	1857.4	0.2			
8	0.0	0.4	21.7	0.3	556.6	0.1	0.4	0.0	0.0	0.1	15.5	793.4			
9	4.3	0.4	0.6	0.3	10.1	0.1	0.4	16.4	0.0	0.1	1.6	337.5			
10	6.7	0.2	0.0	0.3	0.6	0.1	0.3	30.8	0.0	0.2	1.3	1486.9			
11	1.4	0.1	0.0	0.3	0.0	0.1	0.1	0.1	0.0	0.2	55.4	559.0			
12	0.5	0.1	0.0	0.2	0.0	0.1	0.1	12.7	0.0	0.1	116.1	425.3			
13	0.2	0.1	0.0	0.1	0.0	0.1	0.1	3.9	0.0	0.1	279.8	80.6			
14	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	6.2	365.7			
15	0.0	0.0	7.3	7.0	0.2	700.2	0.1	0.0	0.0	0.1	0.2	483.0			
16	0.0	0.0	231.8	23.7	2.4	4.1	0.1	0.0	0.0	0.1	0.2	33.2			
17	0.0	0.0	7.4	0.2	8.8	0.3	0.1	0.0	0.0	0.1	0.1	20.5			
18	0.0	0.0	1.5	0.0	0.1	0.0	0.0	0.0	0.0	0.8	46.7	13.5			
19	0.0	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.8	386.5	36.5			
20	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.4	11.0	20.0			
21	0.9	0.0	0.1	3.9	0.0	0.0	0.1	0.0	0.0	0.4	0.2	6.8			
22	0.1	0.0	0.0	6.5	0.1	0.0	0.1	0.0	0.0	0.7	0.1	3.3			
23	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.4	0.1	2.1			
24	0.1	0.1	0.0	0.1	265.1	0.0	0.0	0.0	0.0	0.3	0.0	1.1			
25	0.1	0.1	3.0	0.1	2.0	1121.3	0.0	0.1	0.0	0.3	427.4	0.7			
26	0.0	0.1	1.4	0.1	0.0	30.5	0.0	0.1	0.0	0.6	20.2	0.6			
27	0.0	0.0	0.4	0.2	0.0	2.0	0.0	0.0	0.0	0.8	77.8	0.4			
28	91.3	0.0	0.2	0.3	0.0	104.4	0.8	0.1	0.0	0.4	367.1	0.3			
29	5.3	0.0	0.1	155.6	0.3	2.3	120.0	0.1	0.0	0.2	28.8	0.2			
30	1.1	0.0	0.2	234.5	0.1	22.1	0.0	0.0	0.0	35.8	7.3	653.8			
31	0.3	0.0	0.0	1.6	1.6	0.7	0.0	0.0	0.0	11.0	112.2				
MEAN	22.44	0.22	10.05	7.53	35.14	65.54	42.16	2.10	0.02	1.75	135.35	175.64			
INCHES	0.626	0.006	0.372	0.283	1.296	2.380	1.555	0.078	0.001	0.064	4.638	6.400			
STA AV	1.141	1.631	1.666	1.285	1.006	0.353	0.393	0.373	0.413	0.129	0.508	1.702			

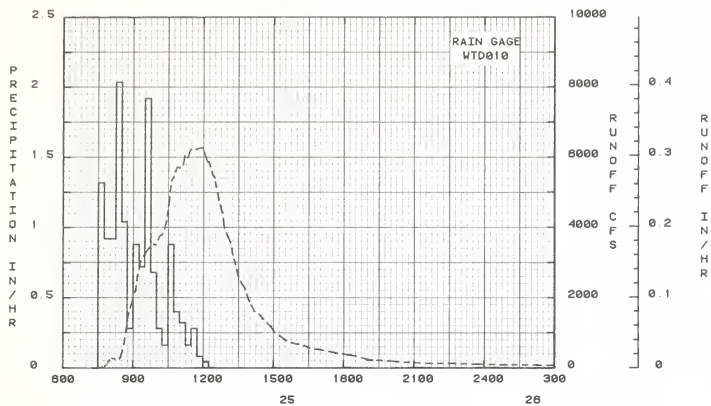
NOTES: To convert discharge in CFS to IN/DAI, multiply by 0.0019501. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 16 yr (1957-72) record period.

1972	SELECTED RUNOFF EVENT						OXFORD, MISSISSIPPI				WATERSHED W-32				
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF								
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 25 - 27, 1972															
EG WTD010			EG WTD010												
6-25	0.24	0.0	6-25	730	0.0	0.0	6-25	716	0.0	0.0					
				745	1.3200	0.33		730	0.407	0.0					
				800	0.5200	0.56		734	3.706	0.0					
				815	0.9200	0.79		742	32.625	0.0001					
				830	2.0400	1.30		748	57.240	0.0003					
WATERSHED CONDITIONS:															
About 27% of area in cultivation, primarily cotton,			845	1.0400	1.56	754	112.000	0.0007							
corn and soybeans, and rye-			500	0.2800	1.63	756	175.000	0.0005							
grass, poor to fair cover;			915	0.8800	1.85	800	235.000	0.0016							
32% in pasture and idle			530	0.7200	2.03	806	275.000	0.0028							
land, fair to good cover;			945	1.9200	2.51	814	255.000	0.0045							
40% in woods, good cover; 1% in bare gullies.			1000	0.6800	2.68	826	265.000	0.0071							
			1015	0.2800	2.75	834	514.955	0.0057							
			1030	0.1600	2.75	838	714.555	0.0117							
			1045	0.8804	3.81	842	1051.709	0.0146							
			1100	0.4000	3.11	846	1419.598	0.0187							
			1115	0.3200	3.19	854	1749.598	0.0291							
			1130	0.1600	3.23	900	2015.598	0.0386							
			1145	0.2800	3.30	906	2159.598	0.0488							
			1200	0.0800	3.32	912	2465.357	0.0611							
			1215	0.0400	3.33	920	3059.598	0.0800							
			1230	0.0	3.33	932	3279.957	0.1113							
						942	3405.957	0.1353							
						952	3519.598	0.1676							
						958	3505.957	0.1853							
						1008	3748.952	0.2155							
						1016	3825.597	0.2404							
						1026	4177.577	0.2730							
						1032	4735.375	0.2555							
						1038	5339.577	0.3205							
						1044	5445.584	0.3470							

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000496. Thiessen weighted storm rainfall, rain gages 3, 10 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on pp. 62.010-1 and 2.

1972			SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATISSEB #3-2		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JUNE 25 - 27, 1972 (CONTINUED)											
6-25							1052	5720.707	0.3836		
							1100	5700.605	0.4225		
							1108	5755.605	0.4604		
							1112	6055.577	0.4795		
							1120	5952.577	0.5156		
							1128	6244.984	0.5559		
							1140	6244.984	0.6216		
							1158	6260.577	0.7150		
							1210	5675.577	0.7750		
							1214	5675.577	0.7543		
							1224	5459.984	0.8417		
							1228	5425.573	0.8597		
							1240	4770.613	0.5101		
							1246	4507.577	0.9335		
							1250	4406.577	0.9462		
							1254	3975.558	0.5620		
							1300	3625.597	0.5617		
							1310	3559.952	1.0117		
							1316	3229.597	1.6288		
							1326	2789.557	1.0533		
							1330	2604.373	1.0627		
							1340	2375.554	1.0630		
							1348	2235.556	1.0562		
							1358	1853.557	1.1154		
							1412	1607.497	1.1357		
							1424	1517.458	1.1511		
							1434	1369.595	1.1632		
							1452	1187.500	1.1822		
							1504	1000.000	1.1532		
							1518	855.000	1.2040		
							1534	770.000	1.2151		
							1556	660.000	1.2282		
							1606	675.000	1.2338		
							1620	635.000	1.2414		
							1634	550.000	1.2483		
							1656	520.000	1.2575		
							1728	450.000	1.2708		
							1744	415.000	1.2765		
							1808	375.000	1.2844		
							1834	329.562	1.2520		
							1856	256.230	1.2573		
							1914	216.000	1.3008		
							1926	216.000	1.3629		
							1956	152.656	1.3680		
							2022	165.240	1.3118		
							2050	145.760	1.3155		
							2148	116.763	1.3219		
							2248	118.763	1.3278		
							2334	105.232	1.3321		
							2400	56.348	1.3343		
6-26							58	82.088	1.3386		
							214	71.000	1.3434		
							346	57.240	1.3483		
							514	46.188	1.3521		
							642	40.365	1.3553		
							814	33.840	1.3581		
							946	30.265	1.3605		
							1158	24.016	1.3635		
							1318	25.569	1.3651		
							1400	19.624	1.3660		
							1436	16.440	1.3664		
							1500	20.456	1.3665		
							1522	21.312	1.3673		
							1548	15.624	1.3677		
							1630	12.890	1.3683		
							1720	10.412	1.3688		
							1830	9.306	1.3694		
							2002	6.430	1.3700		
							2130	4.050	1.3704		
							2244	3.378	1.3706		
							2332	3.067	1.3707		
							2400	2.774	1.3708		
6-27							2400	1.254	1.3732		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000456. Thiessen weighted storm rainfall, rain gages 3, 10 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on pp. 62.010-1 and 2.



EVENT OF JUNE 25 - 27, 1972
CIPCED, MISSISSIPPI WATERSHED W-32

LOCATION: Marshall Co., Miss.; 8 mi. S of Eyalhia on County road; Pigeon Roost Creek, Yazoo River Basin.

AREA: 75000.00 acres 117.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)												OXFORD, MISSISSIPPI WATERSHED W-34	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972	P 6.13	1.13	4.13	4.82	5.67	6.56	5.69	2.41	4.63	3.15	10.31	9.17	67.64
	Q 1.116	0.512	0.869	1.090	1.311	1.724	2.896	0.586	0.537	0.415	2.990	5.242	15.288
STA AV	P 4.10	4.61	4.67	4.86	4.34	3.27	4.34	4.04	4.50	2.14	4.63	5.66	51.14
	Q 1.452	1.886	1.810	1.489	1.124	0.575	0.845	0.722	0.745	0.434	1.085	1.781	13.947
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	5- 8	0.132	7- 3	0.127	7- 3	0.253	7- 3	0.60E	7- 3	1.025	7- 3	1.507	12- 8
													2.114
													12- 6
													3.837
MAXIMUMS FOR PERIOD OF RECORD													
	2-21	0.166	2-21	0.162	2-21	0.310	7- 9	0.800	7- 9	1.410	11-27	2.270	12- 3
													2.726
													3-24
													4.770
	1971		1971		1971		1967		1967		1968		1964
													1565

NOTES: Watershed conditions: About 21% in cultivation (cotton, corn, ryegrass and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 28% in pasture and idle land, good cover April to October with fair cover remainder of year; 48% in woods, good cover; 1% bare gullies; 2% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1970-73. About 21% of drainage area principally in upper reaches above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62-111-6. Monthly precipitation Thiessen weighted from 32 rain gages. Monthly values of runoff include small amounts of flow through auxiliary Station 34-A. Precipitation and runoff records began Jan. 1957. Runoff for period Oct. 1969 thru Dec. 1970 discontinued due to desilting. For long-time precipitation records, see National Weather Service records at Holly Springs, Wb, Mississippi.

1972 DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-34	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.34	0.0	0.72	0.0	0.23	0.0	0.0	0.28	0.16	0.0	0.0	0.59	0.0
2	0.0	0.01	0.47	0.0	0.01	0.0	0.31	0.0	0.39	0.0	0.33	0.0	0.0
3	0.56	0.10	0.0	0.59	0.0	0.0	1.36	0.01	0.02	0.0	0.0	0.0	0.0
4	0.50	0.0	0.21	0.0	0.0	0.0	0.34	0.0	0.70	0.0	0.0	0.04	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15
6	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	2.61	0.16
7	0.0	0.0	0.43	0.10	1.89	0.0	0.0	0.0	0.0	0.0	0.0	2.32	0.03
8	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.01	0.21	0.0	0.0	0.0	2.18
9	0.64	0.0	0.0	0.0	0.0	0.0	0.01	0.50	0.0	0.0	0.0	1.30	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	1.04	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.41
12	0.0	0.21	0.0	0.0	0.20	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.42
13	0.0	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0
14	0.0	0.0	0.0	0.0	0.0	0.26	0.28	0.0	0.0	0.01	0.0	1.33	0.0
15	0.0	0.0	1.05	1.18	0.0	2.41	0.0	0.0	0.0	0.0	0.0	0.0	0.19
16	0.0	0.01	0.17	0.01	0.63	0.0	0.0	0.0	0.01	0.04	0.0	0.0	0.0
17	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.91	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.47	0.54	0.66	0.0	0.0
19	0.20	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.46	0.36	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.64	0.0	0.01	1.00	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.04
22	0.0	0.13	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.76	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.11	0.04	0.0	0.0	0.0
24	0.31	0.0	0.52	0.0	0.79	0.0	0.14	0.18	0.34	0.0	0.28	0.0	0.0
25	0.0	0.02	0.19	0.0	0.0	2.52	0.0	0.20	0.0	0.0	0.0	0.0	0.0
26	0.0	0.10	0.08	0.0	0.0	0.27	0.03	0.0	0.22	0.0	0.0	0.0	0.0
27	0.10	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.39	0.81	0.50	0.0	0.0
28	0.11	0.0	0.11	1.08	0.0	1.68	2.37	0.0	0.08	0.0	0.02	0.0	0.0
29	0.04	0.0	0.45	0.76	0.0	1.27	0.0	0.79	0.05	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.63	0.0	0.29	0.0	0.0	0.0	0.50	0.0	1.51	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	6.13	1.13	4.13	4.62	5.67	6.56	5.69	2.41	4.63	3.15	10.31	9.17	
STA AV	4.10	4.61	4.67	4.86	4.34	3.27	4.34	4.04	4.50	2.14	4.63	5.66	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C, (p. 62.001-1). Daily precipitation values Thiessen weighted from rain gages 1 thru 31 and 33. STA AV based on 15 yr (1957-69, 1971-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)												OXFORD, MISSISSIPPI WATERSHED W-34	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	369.2	49.3	77.3	58.3	67.8	36.4	60.2	69.7	43.4	42.2	42.2	53.5	
2	721.9	50.7	173.2	56.6	58.4	32.8	73.2	40.5	55.0	42.2	185.5	56.5	
3	68.9	50.7	76.6	100.0	55.0	38.1	62.6	44.5	62.6	42.2	47.5	63.6	
4	288.5	50.7	71.5	235.0	53.5	37.7	671.6	36.5	52.0	42.2	37.7	60.2	
5	85.3	49.4	69.7	68.1	56.9	38.9	201.5	36.5	44.9	42.2	37.7	68.1	
6	50.9	76.6	56.6	52.2	55.5	38.9	111.6	35.3	41.1	42.2	451.0	101.2	
7	45.6	75.8	60.2	52.2	104.4	38.9	62.6	35.3	44.5	42.2	3423.0	79.2	
8	45.6	60.2	106.4	53.5	1671.8	38.9	52.0	36.5	42.2	42.2	179.4	2539.2	
9	133.1	55.0	58.4	52.0	89.5	35.0	52.0	35.3	40.0	42.2	78.0	1452.0	
10	79.8	56.6	53.5	52.0	71.3	35.0	52.0	234.7	41.1	42.2	53.5	3211.6	
11	60.6	56.6	53.5	55.1	60.8	38.9	52.0	139.6	40.0	42.2	47.1	778.8	
12	52.0	53.5	55.0	56.6	48.2	38.9	52.0	173.2	40.0	42.2	45.8	575.8	
13	52.0	52.0	53.5	53.5	48.2	38.9	52.0	123.9	40.0	42.2	394.3	531.7	
14	49.4	50.7	62.6	53.5	45.6	40.0	52.0	51.4	37.7	42.2	151.8	1077.3	
15	48.1	52.2	88.1	196.2	46.8	1596.3	52.0	44.5	35.3	42.2	106.0	1937.5	
16	50.7	53.5	743.9	680.4	51.1	84.2	52.0	44.5	35.3	42.2	89.0	252.4	
17	53.5	55.1	63.4	72.1	56.5	41.1	52.0	45.6	55.7	42.2	87.1	131.0	
18	56.6	55.1	61.9	60.6	88.1	43.4	52.0	44.5	124.2	42.2	157.9	52.9	
19	56.6	50.7	55.1	52.0	50.7	43.4	52.0	43.4	59.4	42.2	881.7	216.0	
20	52.2	52.2	56.7	50.7	44.9	42.2	52.0	42.2	50.7	42.2	123.1	235.4	
21	174.0	55.0	63.6	144.3	41.1	44.5	52.0	42.2	44.6	42.2	70.1	172.8	
22	79.9	55.0	55.5	195.0	39.9	49.4	52.0	45.6	42.2	42.2	48.6	150.0	
23	62.1	55.0	46.9	54.0	36.5	48.2	52.0	44.5	48.2	42.2	42.2	127.2	
24	64.1	56.6	53.6	42.2	554.2	45.6	52.0	43.4	55.9	42.2	47.1	108.2	
25	79.5	60.0	87.6	40.0	55.2	1690.1	60.6	71.1	49.7	42.2	1050.6	100.6	
26	55.1	58.4	59.3	43.4	35.3	179.2	65.5	42.2	56.8	42.2	166.2	94.9	
27	58.7	55.0	50.7	49.4	36.4	64.4	63.6	41.1	113.1	42.2	114.5	100.6	
28	279.3	53.5	58.7	71.8	41.1	811.5	740.6	41.1	57.3	42.2	1019.4	108.2	
29	99.3	58.7	58.7	53.5	46.4	70.4	1447.4	40.0	93.5	42.2	125.9	105.2	
30	84.9	50.7	71.4	328.0	56.9	146.5	41.1	144.6	42.2	66.1	1897.5		
31	57.4	53.8	52.1	52.1	47.9	43.4	42.2	42.2	42.2	42.2	367.8		
MEAN	113.39	55.65	88.33	118.52	133.26	181.12	294.41	59.53	56.37	42.23	314.01	532.84	
INCHES	1.116	0.512	0.869	1.050	1.311	1.724	2.896	0.586	0.537	0.415	2.790	5.242	
STA AV	1.452	1.086	1.810	1.489	1.124	0.575	0.845	0.722	0.745	0.434	1.085	1.781	

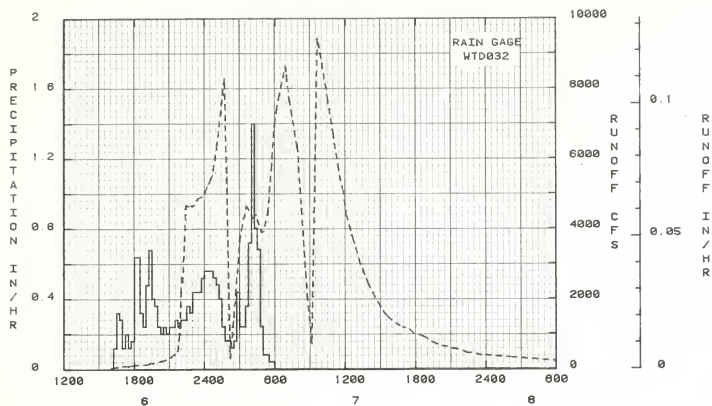
NOTES: To convert discharge in CFS to TB/HR, multiply by 0.00031736. Quality of records: Good, estimated as within 10% of actual. Daily discharge values include relatively insignificant flow through auxiliary station 34-A. Runoff for period October 1969 thru December 1970 discontinued, due to dredging in the channel. STA AV based on 15 yr (1957-69, 1971-72) record period. Part-year amounts are included in station averages.

1972 SELECTED RUBOFF EVENT				OXFORD, MISSISSIPPI				WATERSHED W-34			
ANTECEDENT CONDITIONS				RAINFALL				RUBOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 6 - 9, 1972											
11- 6	RG WTD032	0.009	11- 6	1615	0.0	0.0	11- 6	1606	42.225	0.0	
				1630	0.1200	0.03		1638	61.768	0.0004	
				1645	0.3200	0.11		1734	65.152	0.0008	
				1700	0.2600	0.18		1736	81.191	0.0014	
				1715	0.1190	0.21		1746	100.600	0.0016	
WATERSHED CONDITIONS:											
	About 21% of area in cultivation, primarily cotton, corn, ryegrass and soybeans, poor to fair cover; 28% in pasture and idle land, fair cover; 48% in woods, good cover; 1% in bare gullies; 2% urban.			1730	0.2000	0.36		1822	115.600	0.0025	
				1745	0.1200	0.29		1908	138.600	0.0038	
				1800	0.1600	0.33		1924	165.200	0.0043	
				1815	0.6400	0.49		1936	169.000	0.0047	
				1830	0.6400	0.65		1942	187.938	0.0049	
				1845	0.3197	0.73		2018	226.436	0.0065	
				1900	0.2400	0.79		2044	269.358	0.0079	
				1915	0.4600	0.91		2108	343.937	0.0095	
				1930	0.6600	1.08		2130	437.438	0.0114	
				1945	0.4000	1.18		2144	521.465	0.0129	
				2000	0.3600	1.27		2154	1027.638	0.0186	
				2015	0.2400	1.33		2200	2174.433	0.0168	
				2030	0.2000	1.38		2202	2631.918	0.0178	
				2045	0.2400	1.44		2210	2468.132	0.0223	
				2100	0.2000	1.49		2224	4662.145	0.0333	
				2115	0.2400	1.55		2238	4634.465	0.0477	
				2130	0.2400	1.61		2250	4634.465	0.0559	
				2145	0.2600	1.68		2308	4676.011	0.0704	
				2200	0.2400	1.74		2326	4871.668	0.0571	
				2215	0.2800	1.81		2348	4913.266	0.1209	
				2230	0.2800	1.88		2400	5029.266	0.1343	
				2245	0.3600	1.97	11- 7	40	5515.504	0.1806	
				2300	0.3200	2.05		106	6481.504	0.2150	
				2315	0.4400	2.16		126	7529.582	0.2458	
				2330	0.4400	2.27		142	8265.900	0.2740	

NOTES: To convert runoff in CFS to TB/HR, multiply by 0.00001322. Thiessen weighted storm rainfall, rain gauges 1 thru 31 and 33. For 30-day antecedent P and G, see table on pp. 62.011-1 and 62.011-2.

1972 SELECTED RUNOFF EVENT				CFPCE, MISSISSIPPI				WATERSHED W-34			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 6 - 9, 1972 (CONTINUED)											
11- 6	2345	0.4000	2.38	11- 7	212	303.000	0.3024				
	2400	0.5200	2.51		240	2135.314	0.3059				
11- 7	15	0.5600	2.65		300	3655.589	0.3228				
	30	0.5600	2.79		314	4125.367	0.3347				
	45	0.5600	2.93		336	4647.984	0.3560				
	100	0.5200	3.06		406	4281.043	0.3855				
	115	0.4800	3.18		422	4354.723	0.4007				
	130	0.4000	3.28		452	3865.732	0.4281				
	145	0.2400	3.34		464	3935.405	0.4386				
	200	0.1600	3.38		524	4451.805	0.4570				
	215	0.1600	3.42		544	5067.480	0.4797				
	230	0.1200	3.45		558	6555.984	0.4996				
	245	0.1600	3.49		608	7364.984	0.5156				
	300	0.4400	3.60		624	7674.980	0.5424				
	315	0.2400	3.66		654	8644.984	0.5570				
	330	0.2400	3.72		714	7664.980	0.6328				
	345	0.3600	3.81		758	6151.584	0.7001				
	400	0.7200	3.59		816	4535.984	0.7214				
	415	1.4000	4.34		846	2065.625	0.7433				
	430	0.8000	4.54		910	702.000	0.7506				
	445	0.6800	4.71		938	5448.141	0.7621				
	500	0.2400	4.77		1002	8705.584	0.8299				
	515	0.0800	4.79		1034	7563.586	0.8875				
	530	0.0800	4.81		1058	6719.960	0.9251				
	545	0.4000	4.82		1128	5643.984	0.9660				
	600	0.0400	4.83		1154	4955.574	0.9964				
	615	0.0	4.83		1206	4374.223	1.0087				
	630	0.0	4.83		1248	3575.959	1.0455				
	745	0.0	4.83		1320	2961.500	1.0686				
	800	0.0003	4.83		1358	2436.760	1.0512				
	815	0.0003	4.83		1434	2025.280	1.1065				
	830	0.0003	4.83		1502	1764.558	1.1205				
	845	0.0003	4.83		1522	1570.382	1.1278				
	900	0.0004	4.83		1558	1383.500	1.1395				
	915	0.0005	4.83		1626	1262.854	1.1476				
	930	0.0009	4.63		1640	1217.959	1.1514				
	945	0.0005	4.83		1656	1181.559	1.1556				
	1000	0.0005	4.83		1706	1157.995	1.1582				
	1015	0.0006	4.83		1730	1110.000	1.1642				
	1030	0.0006	4.83		1750	1005.918	1.1688				
	1045	0.0004	4.83		1828	945.580	1.1770				
					1904	846.133	1.1841				
					1928	754.959	1.1883				
					2018	635.999	1.1960				
					2042	624.978	1.1954				
					2110	566.133	1.2031				
					2138	548.343	1.2066				
					2224	454.656	1.2117				
					2246	463.406	1.2139				
					2338	375.937	1.2187				
					2400	375.904	1.2205				
					11- 8	238	304.436	1.2324			
					548	230.352	1.2436				
					908	165.200	1.2523				
					1036	136.600	1.2552				
					1324	153.800	1.2606				
					1518	131.060	1.2642				
					1522	112.000	1.2707				
					2228	100.600	1.2751				
					2400	123.400	1.2774				
					11- 9	330	96.800	1.2825			
					802	77.176	1.2877				
					1426	77.176	1.2942				
					1536	56.274	1.2988				
					2400	55.000	1.3021				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00001322. Thiessen weighted storm rainfall, rain gages 1 thru 31 and 33. For 30-day antecedent F and Q, see table on pp. 62.011-1 and 62.011-2.



TOMBSTONE, ARIZONA WATERSHED W-1

LOCATION: Cochise County, Arizona; 5.6 miles W of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 45 sec. N.; Long. 110 deg. 09 min. 10 sec. W.

AREA: 36900.00 acres 57.66 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA WATERSHED W-1													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1972	P 0.0	0.0	0.0	0.0	0.0	0.19	1.78	2.72	3.83	1.18	2.63	0.87	0.15	13.34												
	Q 0.0	0.0	0.0	0.0	0.0	0.001	0.026	0.126	0.014	0.001	0.000	0.0	0.120													
STA AV	P 0.20	0.48	0.57	0.20	0.13	0.43	3.13	4.01	1.19	0.89	0.37	0.61	12.20													
	Q 0.0	0.0	0.0	0.0	0.0	0.000	0.022	0.092	0.006	0.000	0.000	0.0	0.120													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																										
Maximum Discharge			1 Hour			2 Hours			6 Hours			12 Hours			1 Day			2 Days			8 Days					
Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.
1972	8-12	0.163	8-12	0.092	8-12	0.114	8-12	0.120	8-12	0.120	8-12	0.120	8-11	0.120	8-10	0.120	8-10	0.120	8-10	0.120	8-10	0.120	8-10	0.120	8-10	0.125
MAXIMUMS FOR PERIOD OF RECORD																										
8-12	0.163	8-12	0.092	9-9	0.130	9-9	0.160	9-9	0.150	9-9	0.190	5-8	0.230	5-8	0.310											
1972		1972		1964		1964		1964		1964		1964		1964		1964		1964		1964		1964		1964		

NOTES: Watershed Conditions: 65% of area is desert shrubs (whitethorn, creosotebush and tarbush) with 25% cover and 25% grass cover. 35% is grassland with approximately 20% grass cover (crows spread) and 5% shrub cover. For topography, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation data: records began January 1954. Monthly totals are Thiessen weighted averages of 90 gauges. Static averages are based on 1968-72 data. Runoff data: Records began April 1964, static averages are based on 1966, 1968-72 data. For long-term precipitation records, see National Weather Service records at Tombstone, Arizona.

1972 DAILY AIR TEMPERATURE (degrees F)													TOMBSTONE, ARIZONA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min													
1	56 34	51 33	65 49	72 39	81 54	85 58	101 71	102 73	88 68	55 62	55 29	67 41													
2	60 37	48 33	72 38	78 44	86 51	89 60	101 70	98 72	84 68	50 63	69 35	70 43													
3	57 37	54 25	75 46	79 49	88 54	87 62	100 71	96 69	86 61	70 61	73 43	65 43													
4	48 21	60 33	80 47	83 52	82 59	86 63	102 70	89 64	91 64	68 61	76 45	69 47													
5	50 22	60 43	81 50	90 52	80 53	84 61	98 71	90 69	93 68	78 63	70 47	54 34													
6	58 32	59 38	85 55	88 54	80 52	82 60	96 68	88 67	84 70	78 62	68 42	64 36													
7	56 36	59 36	80 52	82 45	80 52	80 56	95 69	88 64	80 65	80 68	74 44	58 46													
8	54 46	61 36	81 50	84 50	85 53	83 60	93 66	91 65	80 63	81 58	66 55	59 42													
9	60 46	61 43	82 55	86 50	86 53	85 58	95 70	85 61	85 65	82 58	65 35	57 42													
10	58 30	57 40	81 56	88 57	81 51	90 60	98 71	86 62	88 60	80 52	72 42	63 29													
11	65 32	61 34	83 58	84 57	82 52	93 63	98 68	86 65	85 66	87 58	64 46	45 36													
12	65 35	66 37	83 54	83 51	86 50	85 61	98 65	91 66	89 64	81 60	50 33	45 25													
13	65 38	68 38	84 53	75 50	87 52	86 59	96 69	88 58	87 66	84 60	58 34	53 38													
14	64 38	65 38	80 54	58 39	82 55	89 62	99 67	91 67	85 64	88 59	64 39	51 26													
15	62 38	60 40	79 52	72 33	84 53	94 62	91 68	94 66	85 61	88 63	60 38	52 32													
16	63 36	62 35	80 50	82 44	87 56	95 65	89 63	92 62	90 65	87 62	62 41	51 29													
17	67 42	71 34	80 51	78 52	87 57	95 70	78 65	90 64	90 66	77 59	45 42	55 28													
18	66 40	72 45	82 51	75 53	85 58	96 65	87 67	84 63	92 64	70 58	56 38	71 43													
19	64 37	78 56	77 54	71 42	82 61	97 68	88 65	87 64	87 67	69 58	61 36	71 43													
20	62 37	80 59	75 49	63 42	86 60	95 64	93 65	94 66	86 57	66 47	55 39	61 40													
21	64 35	79 54	77 49	78 48	78 48	83 52	96 67	97 68	98 66	82 61	62 47	54 31	63 37												
22	66 38	75 48	75 57	82 48	81 50	53 66	93 65	98 67	83 59	68 43	58 36	69 38													
23	68 40	74 48	77 53	84 50	84 45	53 66	89 64	98 67	85 61	70 46	56 40	68 38													
24	65 40	74 42	80 47	86 52	87 55	94 63	86 69	90 68	83 61	71 51	57 36	61 43													
25	71 44	74 48	74 52	80 52	87 53	94 63	88 65	90 68	83 61	73 59	65 42	63 41													
26	68 53	76 52	75 52	77 46	89 55	95 65	92 67	75 61	84 56	68 38	70 37	59 32													
27	65 43	77 56	69 51	81 45	90 60	58 65	97 70	84 61	69 60	56 41	65 43	58 40													
28	64 37	80 48	60 35	84 45	86 64	101 64	99 72	83 65	88 58	70 44	65 42	60 46													
29	66 38	75 48	62 32	84 52	79 62	102 67	97 65	86 65	87 57	72 46	60 36	47 34													
30	62 38		62 33	83 53	77 58	100 71	100 69	93 63	93 60	56 45	68 35	47 23													
31	56 33		66 37		77 54		103 73	93 65		49 31		58 25													
AV.	62 37	67 42	76 49	79 48	84 55	91 63	95 68	90 66	86 63	75 54	63 39	59 37													
MEAN	49.5	54.3	62.7	63.7	69.3	77.3	81.6	78.0	74.7	64.6	51.1	48.1													
STA AV	59 35	61 37	68 41	75 45	84 53	91 61	93 67	89 65	85 60	78 52	67 43	55 37													

NOTES: STA AV values are based on 9 yr (1964-1972) record period.

1972 DAILY PRECIPITATION (inches)												TONESTONE, ARIZONA WATERSHED W-1											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0											
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32E	0.0	0.0	0.0											
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.06E	0.0	0.0											
4	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.44E	0.0	0.00E											
5	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.08E	0.17E	0.00E	0.07E	0.0											
6	0.0	0.0	0.0	0.0	0.0	0.0	0.94E	0.01	0.03E	0.15E	0.48E	0.0											
7	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.00E	0.01E	0.11E	0.0	0.0											
8	0.0	0.0	0.0	0.0	0.0	0.0	0.18E	0.03E	0.39E	0.0	0.0	0.0											
9	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.00E	0.18E	0.02E	0.0	0.0											
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.01	0.01E	0.0	0.0											
11	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.11E	0.0	0.0											
12	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.07E	1.12E	0.0	0.0	0.22E											
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.00E	0.0	0.0	0.0											
14	0.0	0.0	0.0	0.0	0.0	0.0	0.25E	0.07E	0.0	0.03	0.0	0.0											
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60E	0.0	0.02	0.0	0.0											
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.04E	0.0											
17	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.03	0.0	0.24E	0.48E											
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.29E	0.0	0.0											
19	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.05E	0.00E	0.53E	0.0	0.0											
20	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.00E	0.0	0.0											
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0											
22	0.0	0.0	0.0	0.0	0.0	0.0	0.33E	0.0	0.0	0.0	0.0	0.0											
23	0.0	0.0	0.0	0.0	0.0	0.0	0.22E	0.0	0.0	0.0	0.17E	0.0											
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74E	0.01	0.0	0.0	0.0											
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.00E	0.0											
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.69E	0.0	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.01											
28	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.12	0.0	0.0	0.0	0.04E											
29	0.0	0.0	0.0	0.0	0.16E	0.0	0.0	0.40	0.0	0.00E	0.0	0.06E											
30	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.00E	0.0	0.03E	0.0	0.0											
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0											
TOTAL	0.0	0.0	0.0	0.0	0.19	1.78	2.72	3.83	1.18	2.63	0.87	0.15											
STA AV	0.20	0.48	0.57	0.20	0.13	0.43	3.13	4.01	1.19	0.89	0.37	0.61											

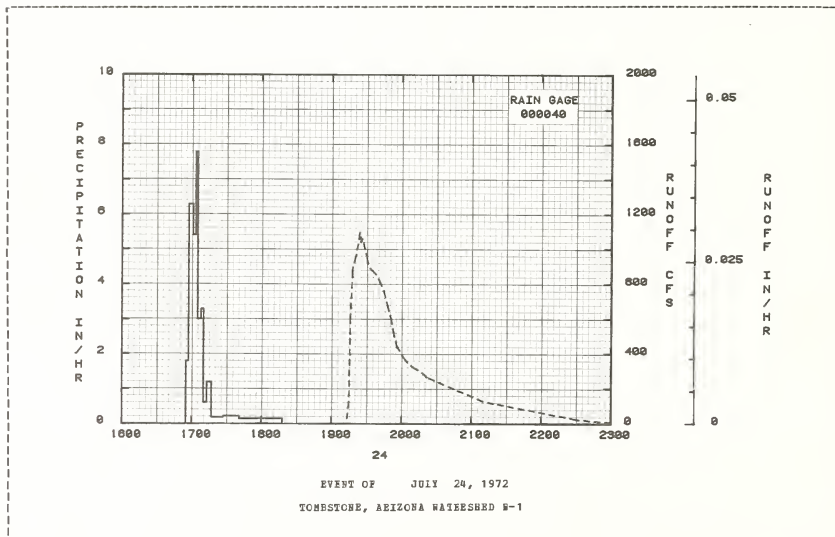
NOTES: Data are Thiessen weighted averages of values from 90 gages. STA AV are for 5 yr only (1968-72).

1972 MEAN DAILY DISCHARGE (cfs)												TONESTONE, ARIZONA WATERSHED W-1											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.17	0.0	0.0	0.0											
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.29	0.0	0.0	0.0											
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0											
6	0.0	0.0	0.0	0.0	0.0	0.0	0.03	2.78	0.0	2.19	0.0	0.0											
7	0.0	0.0	0.0	0.0	0.0	0.0	1.07	0.0	0.37	0.0	0.0	0.0											
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.72	0.0	0.0	0.0	0.0											
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	185.45	0.0	0.0	0.0	0.0											
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0											
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.26	0.0	0.0	0.0	0.0											
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0											
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0											
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
MEAN	0.0	0.0	0.0	0.0	0.0	0.0366	1.2887	6.2898	0.7154	0.0689	0.0036	0.0											
INCHES	0.0	0.0	0.0	0.0	0.0	0.001	0.026	0.126	0.018	0.001	0.000	0.0											
STA AV	0.0	0.0	0.0	0.0	0.0	0.000	0.022	0.092	0.006	0.000	0.000	0.0											

NOTES: To convert mean daily discharge in CFS to IHD/DAI, multiply by 0.000645. STA AV are for 6 yr only (1966, 1968-72). Previously published data are being reevaluated.

1972 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED #1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Eate	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)
EVENT OF JULY 24, 1972										
EG 000040			EG 000040							
7-24	0.0	0.0	7-24	1655	0.0	0.0	7-24	1904	0.0	0.0
				1657	1.7996	0.06		1905	0.031	0.0
				1655	6.3015	0.27		1910	0.031	0.0
				1701	6.2987	0.48		1913	0.0	0.0
				1703	5.4013	0.66		1915	125.730	0.0001
WATERSHED CONDITIONS:				1705	7.7583	0.92		1916	559.324	0.0003
65% of area in desert shrubs				1708	2.9998	1.07		1918	898.375	0.0009
(Whitehorn, creosotebush and				1710	3.3008	1.18		1921	965.742	0.0022
turbush) with 23% cover and				1713	0.6000	1.21		1924	1096.403	0.0036
2% grass cover. 35% is in				1717	1.2000	1.29		1925	1035.955	0.0040
grassland with approximately										
20% grass cover (crown				1727	0.1800	1.32		1926	1059.799	0.0044
spread) and 5% shrub cover.				1741	0.2143	1.37		1930	957.565	0.0063
				1754	0.1385	1.40		1931	916.081	0.0067
				1806	0.1500	1.43		1933	886.437	0.0075
				1818	0.1500	1.46		1938	853.960	0.0095
								1941	816.351	0.0106
								1945	752.768	0.0121
								1948	675.417	0.0130
								1951	600.000	0.0139
								1953	526.448	0.0144
								1956	441.530	0.0150
								2001	387.622	0.0160
								2005	350.271	0.0167
								2010	323.156	0.0174
								2014	306.539	0.0180
								2019	283.643	0.0187
								2022	263.881	0.0190
								2024	258.320	0.0192
								2110	126.011	0.0232

NOTES: To convert runoff in CFS to IS/SE, multiply by 0.0000269.



TOMBSTONE, ARIZONA WATERSHED W-2

LOCATION: Cochise County, Arizona; 2-3/4 miles NW of Tombstone, Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 05 sec. N.; Long. 110 deg. 05 min. 55 sec. W.

AREA: 28100.00 acres 43.90 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA WATERSHED W-2									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
	P	0.0	0.0	0.0	0.0	0.22	1.85	2.90	3.34	1.28	2.68	0.65	0.18	13.29									
1972	Q	0.0	0.0	0.0	0.0	0.0	0.007	0.048	0.021	0.030	0.007	0.001	0.001	0.116									
STA AV	P	0.22	0.50	0.55	0.20	0.13	0.45	3.13	3.93	1.21	0.89	0.38	0.62	12.19									
	Q	0.0	0.0	0.0	0.0	0.0	0.001	0.051	0.101	0.013	0.001	0.000	0.000	0.168									
ANNUAL MAXIMUM DISCHARGE (lb/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge						Maximum Volume for Selected Time Interval																	
	Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days														
	7-24	0.060	7-24	0.038	7-24	0.045	8- 5	0.048	8- 5	0.048	8- 4	0.048	8- 3	0.046	7-28	0.048							
1972																							
MAXIMUMS FOR PERIOD OF RECORD																							
	7-26	0.160	7-26	0.130	7-26	0.170	7-26	0.210	9- 9	0.240	5- 9	0.240	9- 5	0.240	9- 5	0.430							
	1959		1959		1969		1959		1964		1964		1964		1964								

NOTES: Watershed Conditions: 55% of area in oak woodland and desert shrubs (whitebark, creosotebush, tarbush and sotolilla), with a 25% crown spread cover. 45% of area supports grass (black grass, curly mesquite, toboggan, blue grama and sidecoats grass), with a basal area of 2.5%, and a shrub cover of approximately 6% crown spread. For topographic, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Risc. Pub. 1226. Precipitation Data: records began January 1959. Monthly totals are thirteens weighted averages from 69 gages, station averages are for 5 yr only (1968-72). Runoff Data: Records began July 1959, station averages are based on 1966, 1968-72 data. Temperature Data: See table of daily maximum and minimum value included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

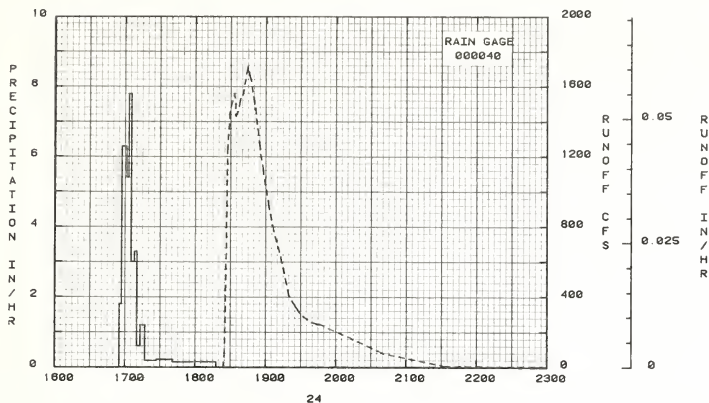
1972 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA WATERSHED W-2												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0												
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27E	0.0	0.0	0.0												
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.05E	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.0	0.47E	0.0	0.00E												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.05E	0.07E	0.00E	0.07E	0.0	0.02E												
6	0.0	0.0	0.0	0.0	0.0	0.0	0.54E	0.01	0.39E	0.16E	0.49E	0.0	0.0												
7	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.00E	0.01E	0.14E	0.0	0.0	0.0												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.22E	0.04E	0.31E	0.0	0.0	0.0	0.0												
9	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.00E	0.22E	0.01E	0.0	0.0	0.0												
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.00E	0.00E	0.0	0.0	0.0												
11	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.14E	0.0	0.0	0.0												
12	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.08E	0.83E	0.0	0.0	0.23E	0.0												
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.01	0.0	0.0	0.0												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.06E	0.0	0.04	0.0	0.0	0.00E												
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66E	0.0	0.02	0.0	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.03E	0.0	0.0												
17	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.03	0.0	0.28E	0.48	0.0												
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.29E	0.0	0.0												
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.52E	0.0	0.0												
20	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.00E	0.0	0.0												
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0												
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28E	0.0	0.0	0.0	0.0	0.0												
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20E	0.0	0.0	0.0	0.14E	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.93E	0.02	0.0	0.0	0.0	0.0												
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.00E	0.0	0.00E												
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.63E	0.0	0.0	0.0	0.0												
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.01												
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27E	0.08	0.0	0.0	0.05E	0.0												
29	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.01	0.38	0.0	0.00E	0.0	0.10E												
30	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.00E	0.0	0.03E	0.0	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0												
TOTAL	0.0	0.0	0.0	0.0	0.0	0.22	1.85	2.90	3.34	1.28	2.68	0.85	0.18												
STA AV	0.22	0.50	0.55	0.20	0.13	0.45	3.13	3.93	1.21	0.89	0.38	0.62													

NOTES: Data are Thirteens weighted averages of values from 69 gages. STA AV are for 5 yr only (1968-72).

1972					TOMBSTONE, ARIZONA WATERSHED #2											
RAIN DAILY DISCHARGE (cfs)																
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.734	0.014	0.002	0.0	1			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.167	0.029	0.073	0.0	0.0				
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.057	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.069	0.058	0.0	0.101				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.056	0.039	0.0	0.0				
6	0.0	0.0	0.0	0.0	0.0	7.361	0.0	1.748	3.739	6.584	0.200	0.0				
7	0.0	0.0	0.0	0.0	0.0	1.003	0.0	0.007	0.068	0.119	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.762	0.075	0.023	0.0	0.116				
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.088	0.0	0.0	0.0	0.0				
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.150	0.058	0.200	0.0				
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.087				
12	0.0	0.0	0.0	0.0	0.8	0.0	0.0	21.288	0.125	0.082	0.0	0.025				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.062	0.0	0.0	0.0	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.042	0.100	0.100	0.200	0.0				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.100	0.100	0.0	0.084				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.100	0.100	0.200	0.0				
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.089	0.061	0.0	0.070				
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.078	0.150	0.200	0.028				
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.878	0.058	0.078	0.150	0.028				
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.043	0.0	0.057	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.047	0.078	0.054	0.200	0.028				
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.034	0.0	0.0	0.014				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.100	0.095	0.0				
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.113	0.0	0.0	0.0	0.0				
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.062	0.101	0.100	0.075	0.0				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.075	0.075	0.056	0.0				
RAIN	0.0	0.0	0.8	0.0	0.0	0.2788	1.6348	8.6016	1.1597	0.2702	0.0482	0.0206				
INCHES	0.0	0.0	0.0	0.0	0.0	0.007	0.048	0.021	0.030	0.007	0.001	0.001				
STA AV	0.0	0.0	0.0	0.0	0.0	0.001	0.051	0.101	0.013	0.001	0.000	0.000				

NOTES: To convert mean daily discharge in CES to IN/DAY, multiply by 0.000847. STA AV are based on 1566, 1968-72 data.

1972												TOMBSTONE, ARIZONA WATERSHED #2											
ANTICIPATED CONDITIONS						RAINFALL						RUNOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Eate	Acc.	Date	Time	Eate	Acc.									
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	No-Day	of Day	(cfs)	(inches)									
EVENT OF JULY 24, 1972																							
RG 000040																							
7-24	0.0	0.0	7-24	1655	0.0	0.0	7-24	1824	0.0	0.0													
				1657	1.7556	0.06		1825	75.511	0.0													
				1659	6.3015	0.27		1826	466.423	0.0801													
				1701	6.2587	0.48		1827	1238.028	0.0007													
				1703	5.4013	0.66		1829	1455.518	0.8022													
WATERSHED CONDITIONS:																							
Oak woodland and desert shrubs																							
1705 7.7983 0.92 1833 1561.947 0.0057																							
(Whitethorn, creosotebush,																							
1706 2.9936 1.07 1834 1425.662 0.0067																							
tardsh, and santonias) with																							
1710 3.3008 1.18 1836 1458.518 0.0083																							
a crown spread of 25% cover,																							
1713 0.6000 1.21 1838 1532.010 0.0102																							
occupy 55% of the area. The																							
1717 1.2000 1.29 1840 1551.933 0.0119																							
remaining 45% supports grass																							
(black grama, curly mesquite,																							
1727 0.1800 1.32 1844 1714.177 0.0157																							
tobacco, blue grama, and																							
1741 0.2143 1.37 1847 1627.874 0.0187																							
sidecoats grama) with a																							
1754 0.1385 1.40 1850 1502.362 0.0215																							
basal area of 2.5% cover,																							
1806 0.1500 1.43 1853 1348.643 0.0241																							
and a shrub cover of																							
1818 0.1500 1.46 1855 1238.914 0.0255																							
approximately 6% crown spread.																							
1858 1056.437 0.0276																							
1903 456.547 0.0305																							
1907 769.611 0.0325																							
1913 620.876 0.0350																							
1918 467.007 0.0366																							
1920 400.000 0.0371																							
1925 350.547 0.0382																							
1929 310.152 0.0390																							
1933 261.927 0.0397																							
1936 268.427 0.0402																							
1940 251.602 0.0408																							
1944 244.653 0.0414																							
1946 243.843 0.0417																							
2041 75.713 0.0469																							



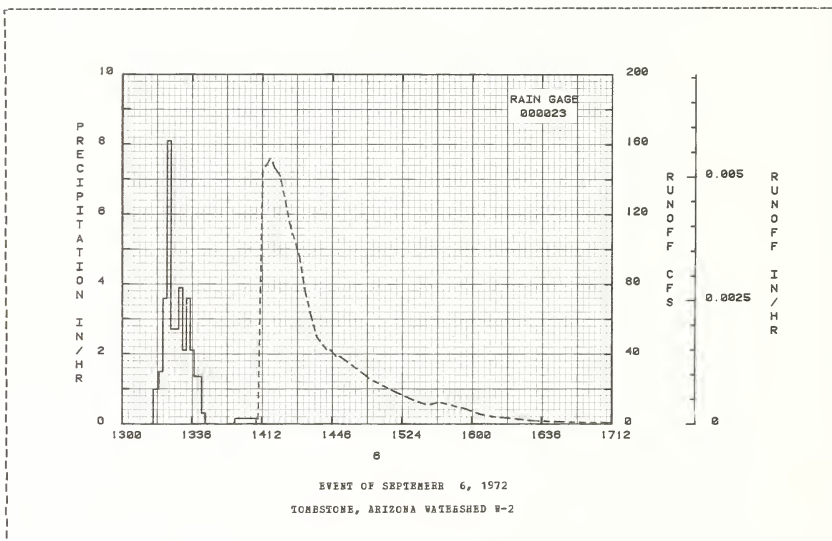
EVENT OF JULY 24, 1972
TONKSTONE, ARIZONA WATERSHED #2

1972 SELECTED RUNOFF EVENT					TONKSTONE, ARIZONA WATERSHED #2				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)
EVENT OF SEPTEMBER 6, 1972									
9- 6	RG 000023		9- 6	RG 000023			9- 6	1405	0.050
	0.0	0.0		1316	0.0	0.0		1410	0.050
				1319	1.0000	0.05		1411	75.511
				1321	1.5000	0.10		1412	144.905
				1323	3.5999	0.22		1416	152.059
				1325	8.1001	0.49			
WATERSHED CONDITIONS:									
Oak woodland and desert shrubs									
[Whitethorn, creosotebush,									
tarbush, and nortonia] with									
a crown spread of 25% cover,									
occupy 55% of the area. The									
remaining 45% supports grass									
(black grama, curly mesquite,									
tobosa, blue grama, and									
sideoats grama) with a									
basal area of 2.5% cover,									
and a shrub cover of									
approximately 6% crown spread.									
				1327	2.7000	0.58		1418	146.754
				1329	2.7000	0.67		1421	141.868
				1331	3.9000	0.80		1426	114.430
				1333	2.1000	0.87		1431	95.501
				1335	3.5999	0.99		1434	75.713
				1337	2.1001	1.06		1437	61.992
				1341	1.3500	1.15		1440	49.732
				1343	0.3000	1.16		1445	42.600
				1358	0.0	1.16		1447	42.306
				1409	0.1636	1.19		1450	38.652
								1452	38.405
								1456	35.478
								1500	31.935
								1501	31.682
								1507	26.005
								1521	16.112
								1530	13.588
								1536	11.346
								1539	11.346
								1542	12.332
								1544	12.332
								1547	11.346
								1557	8.594
								1604	5.649
								1612	4.113

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000353.

1972 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA WATERSHED W-2					
ANTECEDENT CONDITIONS			RAINFALL			Acc. (inches)	RUNOFF				Acc. (inches)
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)		Date Mo-Day	Time of Day	Rate (cfs)		
EVENT OF SEPTEMBER 6, 1972 (CONTINUED)											
							9- 6	1617	3.617	0.0029	
								1624	2.769	0.0029	
								1632	1.764	0.0029	
								1645	1.286	0.0029	
								1656	0.942	0.0029	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000353.



TOMBSTONE, ARIZONA WATERSHED W-3

LOCATION: Cochise County; 1.3 miles north of Tombstone; tributary of Walnut Gulch; San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 43 min. 57 sec. N.; Long. 110 deg. 03 min. 25 sec. W.

AREA: 2220.00 acres 3.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)												TOMBSTONE, ARIZONA WATERSHED W-3											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972	P 0.0	0.0	0.0	0.0	0.12	2.10	2.95	2.76	1.22	2.67	0.59	0.17	12.58										
	Q 0.0	0.0	0.0	0.0	0.0	0.000	0.002	0.006	0.017	0.001	0.0	0.0	0.026										
STA AV	P 0.47	0.37	0.42	0.15	0.08	0.32	3.39	3.16	1.32	0.62	0.43	0.76	11.49										
	Q 0.0	0.0	0.0	0.0	0.0	0.000	0.026	0.117	0.027	0.000	0.0	0.0	0.171										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge				Maximum Volume for Selected Time Interval				Maximum Volume for Selected Time Interval				Maximum Volume for Selected Time Interval				Maximum Volume for Selected Time Interval				Maximum Volume for Selected Time Interval			
Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1972	9-6	0.021	9-6	0.014	9-6	0.017	9-6	0.017	9-6	0.017	9-5	0.017	5-4	0.017	5-28	0.021							
MAXIMUMS FOR PERIOD OF RECORD																							
8-16	0.580	8-10	0.275	8-10	0.312	8-11	0.320	8-11	0.320	8-11	0.320	8-10	0.320	8-10	0.320	8-10	0.426						
1958		1971		1971		1971		1971		1971		1971		1971		1971							

NOTES: Watershed conditions: Vegetative cover; Desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.8% cover occupy 55% of the area. Grasses (black grama, curly mesquite, tobosa) with basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area. For topography, geologic and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA misc. Pub. No. 1226. Precipitation Data: Records began 1955. Monthly totals are Thiessen weighted averages of 13 gages, station averages are based on record period (1955-72). Runoff Data: Records began 1958, station averages are based on record period (1958-72). Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-term precipitation records, see National Weather Service records at Tombstone, Arizona.

1972 DAILY PRECIPITATION (inches)												TOMBSTONE, ARIZONA WATERSHED W-3											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0											
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23E	0.0	0.0	0.0											
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.07E	0.0	0.0											
4	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.42E	0.0	0.0											
5	0.0	0.0	0.0	0.0	0.0	0.0	1.17E	0.43	0.06E	0.0	0.07E	0.0	0.03										
6	0.0	0.0	0.0	0.0	0.0	0.0	1.22E	0.0	0.27E	0.63E	0.50E	0.0	0.0										
7	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.00E	0.22E	0.0	0.0	0.0	0.0										
8	0.0	0.0	0.0	0.0	0.0	0.27	0.06E	0.37	0.0	0.0	0.0	0.0	0.0										
9	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.08	0.01	0.0	0.0	0.0	0.0										
10	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.00T	0.0	0.0	0.0	0.0	0.0										
11	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.10E	0.0	0.0	0.0	0.0										
12	0.0	0.0	0.0	0.0	0.0	0.30	0.03	0.58E	0.0	0.0	0.27E	0.0	0.0										
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0										
14	0.0	0.0	0.0	0.0	0.0	0.09	0.04	0.0	0.001	0.0	0.0	0.00T	0.0										
15	0.0	0.0	0.0	0.0	0.0	0.0	0.57E	0.0	0.02	0.0	0.0	0.0	0.0										
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0										
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.17E	0.52	0.0	0.0										
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.32E	0.0	0.0	0.0										
19	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	1.01E	0.0	0.0	0.0	0.0										
20	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0										
22	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0										
23	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.20E	0.0	0.0										
24	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0										
25	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0										
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62E	0.0	0.0	0.0	0.0	0.0										
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0										
28	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.04	0.0	0.0	0.0	0.04E	0.0										
29	0.0	0.0	0.0	0.0	0.10E	0.0	0.49	0.0	0.0	0.0	0.0	0.10E	0.0										
30	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.00T	0.0	0.05E	0.0	0.0	0.0										
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0										
TOTAL	0.0	0.0	0.0	0.0	0.12	2.10	2.95	2.76	1.22	2.67	0.59	0.17											
STA AV	0.47	0.37	0.42	0.15	0.08	0.32	3.39	3.16	1.32	0.62	0.43	0.76											

NOTES: Data are Thiessen weighted averages from 13 rain gages. STA AV are based on record period (1955-72).

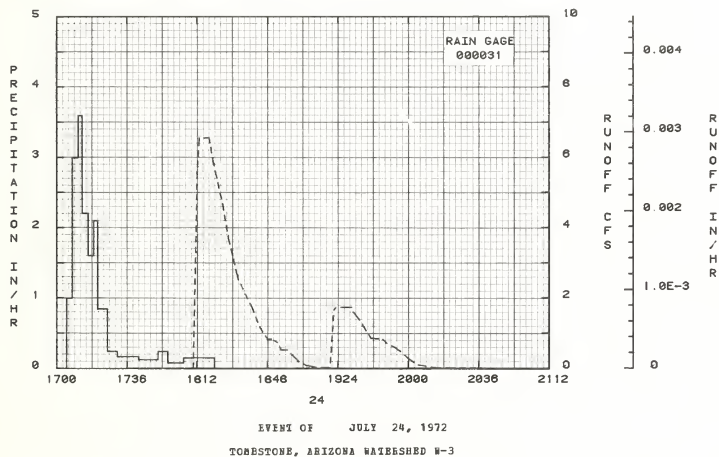
REAR DAILY DISCHARGE (cfs)						TOMBSTONE, ARIZONA WATERGAGE W-3						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	1.611	0.078	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.062	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.101	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.065	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.131	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.352	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REAR	0.0	0.0	0.0	0.0	0.0	0.0001	0.0008	0.0187	0.0537	0.0025	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0000	0.0002	0.0006	0.017	0.001	0.0	0.0
STA 17	0.0	0.0	0.0	0.0	0.0	0.0000	0.0026	0.117	0.027	0.000	0.0	0.0

1972 SELECTED RUNOFF EVENT						TOMBSTONE, ALIYCA WATERSHED W-3					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Eute (cfs)	Acc. (inches)	
EVENT OF JULY 24, 1972											
7-24	EG 000031		7-24		EG 000031		7-24				
	0.0	0.0		1705	0.0	0.0		1810	0.0	0.0	
				1708	0.9595	0.05		1812	5.594	0.0	
				1711	3.0007	0.20		1813	6.564	0.0	
				1713	3.5552	0.32		1818	6.564	0.0002	
				1716	2.1999	0.43		1820	5.895	0.0003	
WATERSHED CONDITIONS:				1719	1.5999	0.51		1822	5.410	0.0004	
Vegetative Cover: Desert				1721	2.1005	0.58		1825	4.643	0.0005	
shrubs (whitethorn, creosote-				1726	0.8900	0.65		1827	3.471	0.0006	
bush, and tarbrush) with				1731	0.2400	0.63		1833	2.507	0.0007	
a crown spread approximately				1742	0.1636	0.70		1840	1.715	0.0008	
30% and grasses with basal											
area of approximately 0.8%				1752	0.1200	0.72		1844	1.163	0.0008	
cover, occupy 55% of the area.				1757	0.2400	0.74		1848	0.817	0.0008	
Grasses (black gram, curly				1805	0.0750	0.75		1850	0.817	0.0008	
mesquite, tolosa) with a				1821	0.1500	0.75		1851	0.753	0.0008	
basal area of 2.6% cover								1853	0.733	0.0008	
and shrub cover of 2% occupy											
the remaining 45% of the											
area.								1855	0.520	0.0008	
								1858	0.520	0.0008	
								1901	0.354	0.0008	
								1904	0.182	0.0008	
								1908	0.073	0.0008	
								1913	0.025	0.0008	
								1920	0.013	0.0008	
								1922	1.658	0.0008	
								1923	1.734	0.0008	
								1931	1.734	0.0009	
								1932	1.584	0.0009	
								1935	1.373	0.0009	
								1937	1.154	0.0009	
								1941	0.892	0.0009	
								1945	0.829	0.0009	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447.

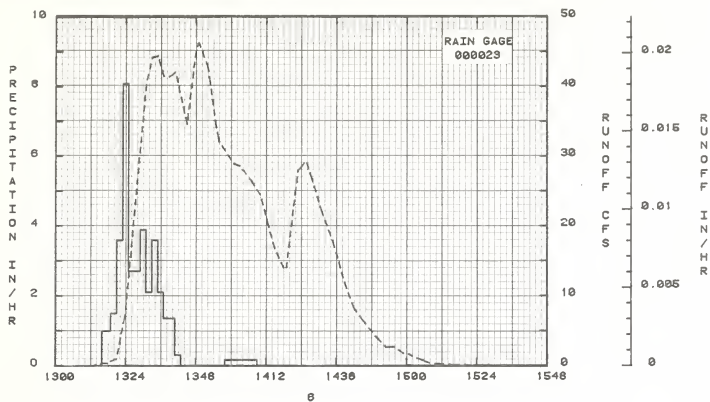
1972 SELECTED RUNOFF EVENT			TOBESTONE, ARIZONA WATERSHED W-3									
PRECIPITATION CONDITIONS			RAINFALL			ACC.			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 24, 1972 (CONTINUED)												
7-24									1947		0.005	0.0009
									1949		0.659	0.0009
									1953		0.550	0.0009
									1956		0.473	0.0009
									2000		0.274	0.0009
									2003		0.156	0.0009
									2005		0.087	0.0009
									2009		0.047	0.0009
									2014		0.009	0.0009
									2021		0.010	0.0009

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447.



1972 SELECTED RUNOFF EVENT			CONDUITAGE, ABITCHA WATERSHED #3								
PRECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 6, 1972											
RG 000023			EG 000023								
9- 6	0.0	0.0	9- 6	1316	0.0	0.0	9- 6	1313	0.0	0.0	
				1319	1.0000	0.05		1314	0.153	0.0	
				1321	1.5000	0.10		1316	0.324	0.0	
				1323	3.5559	0.22		1318	0.309	0.0	
				1325	8.1001	0.49		1319	0.665	0.0	
WATERSHED CONDITIONS:											
Vegetative cover: Desert			1327	2.7000	0.58		1321	0.973	0.0		
shrubs (whitethorn, creosote-			1329	2.7000	0.67		1324	7.360	0.0001		
bush, and tarbrush) with			1331	3.5000	0.80		1327	21.568	0.0004		
a crown spread approximately			1333	2.1000	0.87		1331	40.352	0.0013		
30% and grasses with basal			1335	3.5559	0.59		1333	44.263	0.0019		
area of approximately 0.8%											
cover, occupy 55% of the area.			1337	2.1001	1.06		1335	44.453	0.0026		
Grasses (black grama, curly			1341	1.3500	1.15		1337	41.450	0.0032		
mesquite, tobosa) with a			1343	0.3000	1.16		1339	41.450	0.0039		
basal area of 2.6% cover			1358	0.0	1.16		1341	42.116	0.0045		
and shrub cover of 2% occupy			1409	0.1636	1.19		1345	34.606	0.0057		
the remaining 45% of the											
area.							1348	45.065	0.0065		
							1349	46.352	0.0069		
							1352	42.500	0.0078		
							1353	40.352	0.0082		
							1355	34.108	0.0087		
							1356	32.058	0.0089		
							1400	25.524	0.0099		
							1401	28.086	0.0101		
							1403	26.615	0.0105		
							1407	26.410	0.0113		
							1410	24.466	0.0119		
							1413	15.774	0.0124		
							1415	16.761	0.0127		
							1418	14.023	0.0130		
							1419	14.023	0.0131		
							1422	24.755	0.0135		
							1423	27.967	0.0137		
							1425	28.577	0.0141		
							1426	28.577	0.0143		
							1428	26.323	0.0147		
							1431	22.132	0.0152		
							1435	17.553	0.0158		
							1439	11.722	0.0162		
							1442	8.252	0.0164		
							1445	6.524	0.0166		
							1450	3.910	0.0168		
							1453	2.627	0.0169		
							1456	2.676	0.0170		
							1459	1.715	0.0170		
							1501	1.602	0.0170		
							1502	1.339	0.0170		
							1505	0.825	0.0170		
							1508	0.316	0.0170		
							1511	0.217	0.0170		
							1518	0.077	0.0170		
							1526	0.020	0.0170		

NOTES: To convert runoff in CFS to IBS/HR, multiply by 0.000447.



EVENT OF SEPTEMBER 6, 1972
TCRESTONE, ARIZONA WATERSHED W-3

LOCATION: Cochise County, Arizona; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 19 sec. N.; Long. 110 deg. 02 min. 40 sec. W.

AREA: 560.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA W-4			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1972 P	0.0	0.0	0.0	0.0	0.11	2.17	3.19	3.02	1.29	2.78	1.03	0.15	13.74			
Q	0.0	0.0	0.0	0.0	0.0	0.001	0.002	0.003	0.042	0.002	0.0	0.0	0.050			
STA AV P	0.43	0.36	0.43	0.15	0.08	0.34	3.34	3.22	1.35	0.63	0.13	0.74	11.49			
Q	0.0	0.0	0.0	0.0	0.0	0.000	0.348	0.154	0.031	0.000	0.0	0.0	0.533			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1972	9-6	0.082	9-6	0.039	9-6	0.041	9-6	0.041	9-6	0.041	5-5	0.041	5-4	0.041	5-28	0.044
MAXIMUMS FOR PERIOD OF RECORD																
7-19	2.250	7-19	0.980	7-19	1.100	7-19	1.100	7-19	1.100	7-19	1.630	7-15	1.630	7-19	4.370	
1955		1955		1955		1955		1955		1955		1955		1955		

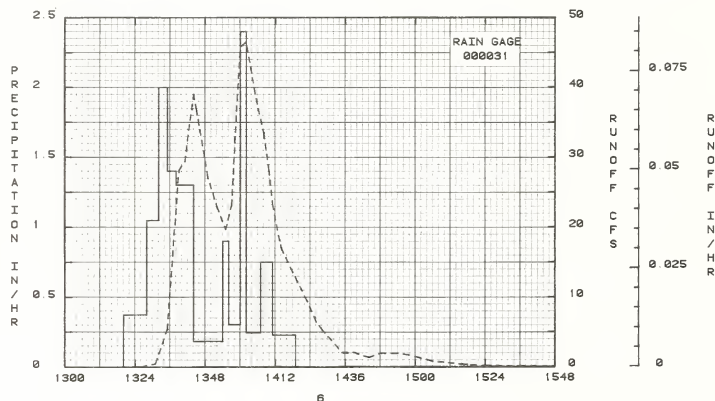
NOTES: Watershed conditions: Vegetative cover: 100% dominated by desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread of approximately 38% and an understory of grasses with approximately 0.6% basal cover. For topography, geological, and vegetative maps, see pages 63.1-3, 63.1-4 and 63.1-5 respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Risc. Pub. 1226. Precipitation Data: Record began July 1954. Monthly totals are Thiessen weighted averages of four rain gages, station averages are based on record period (1955-72). Runoff Data: Records began January 1955, station averages based on 16 yr (1955-72). Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1972 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA W-4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.06E	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.41E	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.19E	0.65	0.10E	0.0	0.04E	0.0	0.03		
6	0.0	0.0	0.0	0.0	0.0	1.28E	0.0	0.30E	0.64	0.57E	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28E	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.34	0.06E	0.47	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.11	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.19	0.06	0.40	0.0	0.0	0.28E	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.08	0.03	0.0	0.0	0.0	0.0	0.01		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.02	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.17E	0.53	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.38E	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	1.02E	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.22E	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.22E	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.05	0.0	0.0	0.0	0.03		
29	0.0	0.0	0.0	0.0	0.10	0.0	0.01	0.59	0.0	0.0	0.0	0.08		
30	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.001	0.0	0.06E	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.0	0.0	0.0	0.11	2.17	3.19	3.02	1.29	2.78	1.03	0.15		
STA AV	0.43	0.36	0.43	0.15	0.08	0.34	3.34	3.22	1.35	0.63	0.13	0.74		

NOTES: Data are Thiessen weighted averages of values from four gages. STA AV are for record period (1955-72).

1972 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-4									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 6, 1972 (CONTINUED)												
							9- 6	1502	1.191	0.0410		
								1506	0.774	0.0411		
								1515	0.365	0.0413		
								1518	0.275	0.0413		
								1519	0.209	0.0413		
								1521	0.148	0.0413		
								1526	0.103	0.0413		
								1536	0.060	0.0413		
								1551	0.025	0.0413		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771.



EVENT OF SEPTEMBER 6, 1972
TOMBSTONE, ARIZONA W-4

TOMBSTONE, ARIZONA W-8

LOCATION: Cochise County; 1-1/2 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 43 min. 23 sec. N.; Long. 110 deg. 02 min. 39 sec. W.

AREA: 3830.00 acres 5.98 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA W-8																																																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																																																		
1972 P	0.0	0.0	0.0	0.0	0.16	1.80	3.29	2.59	1.12	2.73	0.87	0.21	12.78																																																		
Q	0.0	0.0	0.0	0.0	0.0	0.028	0.028	0.007	0.001	0.012	0.0	0.0	0.075																																																		
STA AV P	0.20	0.54	0.50	0.20	0.11	0.42	2.68	3.97	1.24	0.91	0.39	0.63	11.79																																																		
Q	0.0	0.0	0.0	0.0	0.0	0.005	0.046	0.144	0.013	0.002	0.0	0.0	0.209																																																		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																																																															
Maximum Discharge														Maximum Volume for Selected Time Interval																																																	
Date				Vol.				1 Hour Date				Vol.				2 Hours Date				Vol.				6 Hours Date				Vol.				12 Hours Date				Vol.				1 Day Date				Vol.				2 Days Date				Vol.				8 Days Date				Vol.			
1972	7-24				0.050				6- 6				0.022				7-15				0.028				7-15				0.028				7-14				0.028				7-13				0.028				7- 7				0.028										
MAXIMUMS FOR PERIOD OF RECORD																																																															
7-22				1.110				7-22				0.310				7-22				0.320				7-22				0.340				7-22				0.340				7-22				0.340				7-22				0.340											
1964								1964								1964								1964								1964								1964								1964															

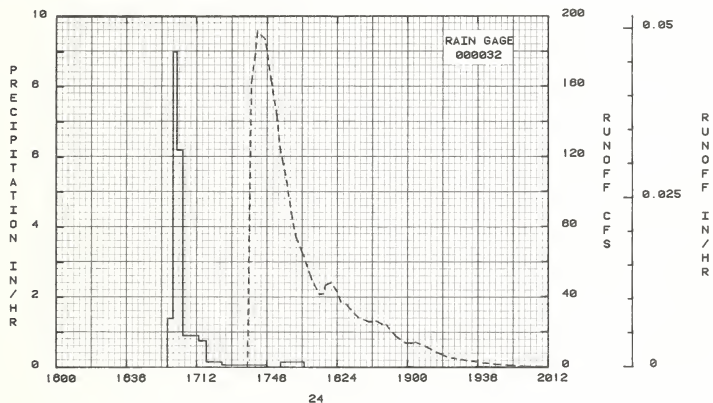
NOTES: Watershed conditions: Vegetative cover: approximately 33% of area is dominated by desert shrubs (white-thorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5% interspersed by desert shrubs with a crown spread of 5%. For topographic, geologic, and vegetation maps, see pages 63, 7-3, 63, 7-4 and 63, 7-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 17 gages, station averages are based on 1968-72 data. Runoff Data: Records began 1963, station averages are based on 1966, 1968-72 data. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1972 DAILY PRECIPITATION (inches)												TOMBSTONE, ARIZONA W-8											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0											
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28E	0.0	0.0	0.0											
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.05E	0.0	0.0											
4	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.45E	0.0	0.0											
5	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.16	0.00E	0.0	0.06E	0.0	0.02										
6	0.0	0.0	0.0	0.0	0.0	0.0	0.37E	0.0	0.23E	0.25E	0.45	0.0	0.0										
7	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.00E	0.18E	0.0	0.0	0.0										
8	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.02E	0.20E	0.0	0.0	0.0	0.0										
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.11E	0.01	0.0	0.0	0.0										
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.00E	0.0	0.0	0.0	0.0										
11	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.17E	0.0	0.0	0.0										
12	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.04	0.53E	0.0	0.0	0.22S	0.0										
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0										
14	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.04	0.0	0.01	0.0	0.0	0.00E										
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68E	0.0	0.00E	0.0	0.0	0.0										
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.08	0.0	0.0										
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.23	0.50	0.0	0.0										
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.28E	0.0	0.0	0.0										
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	1.05E	0.0	0.0	0.0										
20	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0										
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0										
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42E	0.0	0.0	0.0	0.0	0.0										
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.15	0.0	0.0										
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0										
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.00E										
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53E	0.0	0.0	0.0	0.0	0.0										
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0										
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.03	0.0	0.0	0.0	0.07										
29	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.01	0.33	0.0	0.0	0.11S	0.0										
30	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0										
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0										
TOTAL	0.0	0.0	0.0	0.0	0.16	1.80	3.29	2.59	1.12	2.73	0.87	0.21											
STA AV	0.20	0.54	0.50	0.20	0.11	0.42	2.68	3.97	1.24	0.91	0.39	0.63											

NOTES: Data are Thiessen weighted averages from 17 rain gages. STA AV are based on 1968-72 data.

1972 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA W-8					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JULY 24, 1972 (CONTINUED)											
							7-24	1854	17.456	0.0235	
								1859	13.614	0.0238	
								1903	13.614	0.0240	
								1904	14.171	0.0241	
								1910	11.260	0.0244	
								1916	7.736	0.0246	
								1920	5.706	0.0247	
								1923	4.918	0.0248	
								1925	4.568	0.0248	
								1936	2.624	0.0250	
								1945	1.335	0.0251	
								1955	0.493	0.0251	

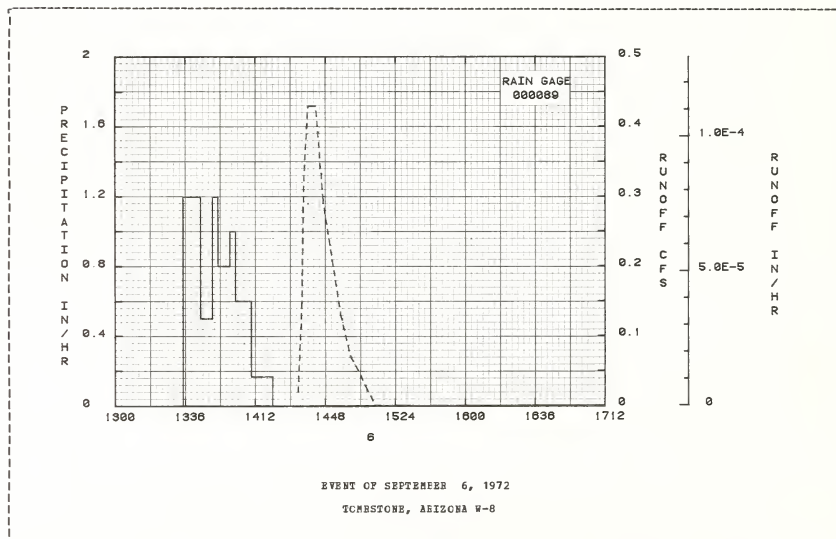
NOTES: To convert runoff in CFS to in/hr, multiply by 0.000259.



EVENT OF JULY 24, 1972
TOMBSTONE, ARIZONA W-8

1972 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA W-8					
ANTICIPATED CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 6, 1972											
RG 000089			RG 000089								
9- 6	0.0	0.000	9- 6	1335	0.0	0.0	9- 6	1434	0.017	0.0	
				1338	1.2000	0.06		1436	0.152	0.0	
				1342	1.2000	0.14		1437	0.329	0.0	
				1348	1.2000	0.18		1439	0.431	0.0	
				1350	0.5000	0.23		1443	0.431	0.0	
WATERSEED CONDITIONS:											
Vegetative cover: Approximately 33% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area.											
The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5%, interspersed by desert shrubs with a crown spread of about 5%.											
				1353	1.2000	0.29		1447	0.287	0.0	
				1356	0.8000	0.33		1456	0.130	0.0	
				1359	0.8000	0.37		1501	0.073	0.0	
				1402	1.0000	0.42		1505	0.049	0.0	
				1407	0.6000	0.47		1510	0.015	0.0	
				1410	0.6000	0.50		1514	0.004	0.0	
				1421	0.1636	0.53		1516	0.0	0.0	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000255.



LOCATION: Cochise County; 4-1/3 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 40 min. 28 sec. N.; Long. 109 deg. 59 min. 40 sec. W.

AREA: 2035.00 acres 3.18 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										TOMBSTONE, ARIZONA W-11						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1972 P	0.0	0.0	0.0	0.0	0.16	1.51	3.53	2.41	1.21	2.75	0.81	0.23	12.61			
Q	0.0	0.0	0.0	0.0	0.0	0.013	0.049	0.017	0.000	0.030	0.0	0.0	0.109			
STA AV P	0.22	0.53	0.50	0.23	0.12	0.37	2.70	4.03	1.21	0.89	0.39	0.66	11.85			
Q	0.0	0.0	0.0	0.0	0.0	0.002	0.088	0.165	0.018	0.005	0.0	0.0	0.279			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge				Maximum Volume for Selected Time Interval											
	Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days							
	Date	Date	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date	Date	Date	Date			
1972	7-24	0.032	10-19	0.020	10-19	0.027	10-19	0.029	10-19	0.029	10-18	0.025	10-17	0.030	7-20	0.035
MAXIMUMS FOR PERIOD OF RECORD																
	9-11	0.520	9-10	0.620	9-9	0.750	9-9	0.770	9-9	0.970	9-10	1.460	9-8	1.700		
	1964		1964		1964		1964		1964		1964		1964			

NOTES: Watershed conditions: Approximately 20% of the area dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with a basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grass, curly mesquite, sidecoats grass) with a basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 63.1-3. For geologic map (p. 63.1-4) and vegetation map (p. 63.1-5) of foregoing reference. Precipitation Data: Records began 1961. Monthly totals are Thiessen weighted averages of 10 rain gages, station averages are for 5 yr (1968-72). Runoff Data: Records began 1963, station averages are based on 1966, 1968-72 data. Temperature Data: See table of daily maximum and minimum values included for watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1972	DAILY PRECIPITATION (inches)						TOMBSTONE, ARIZONA W-11						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.04	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.12	0.09	0.0	0.0	0.05	0.0	0.0	0.02
6	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.19	0.18	0.40	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.005	0.16	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.14E	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.01	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.22	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.24	0.07	0.45	0.0	0.0	0.21E	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.21	0.04	0.0	0.01	0.0	0.0	0.0	0.01
15	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.24	0.45	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.29	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	1.10E	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.47E	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.11	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
28	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.02	0.0	0.0	0.0	0.0	0.08
29	0.0	0.0	0.0	0.0	0.11	0.0	0.01	0.22	0.0	0.0	0.0	0.11E	0.0
30	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.16	1.51	3.53	2.41	1.21	2.75	0.81	0.23	
STA AV	0.22	0.53	0.50	0.23	0.12	0.37	2.70	4.03	1.21	0.89	0.39	0.66	

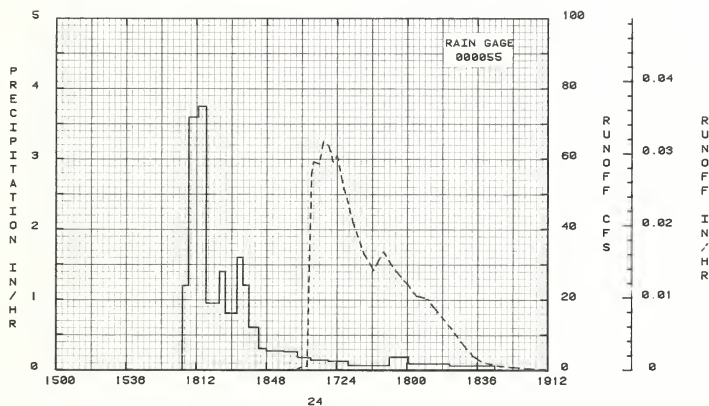
NOTES: Data are Thiessen weighted averages of 10 rain gages. STA AV are for 5 yr only (1968-72).

NOTES: To convert mean daily discharge values in CFS to IN/DAY, multiply by 0.011696. STA AV values are for 6 yr only (1966, 1968-72).

NOTES: To convert runoff in CFS to IB/HR, multiply by 0.000487.

1972 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA W-11					
ANTECEDENT CONDITIONS			RAINFALL			Acc. (inches)	RUNOFF				Acc. (inches)
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)		Date Mo-Day	Time of Day	Rate (cfs)		
EVENT OF JULY 24, 1972 (CONTINUED)											
							7-24	1838	2.249	0.0213	
								1841	1.748	0.0213	
								1847	1.016	0.0214	
								1855	0.553	0.0215	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487.



EVENT OF JULY 24, 1972
TOMBSTONE, ARIZONA W-11

TOMBSTONE, ARIZONA W-15

LOCATION: Cochise County: 3/4 miles east of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 42 min. 46 sec. N.; Long. 110 deg. 02 min. 25 sec. W.

AREA: 5912.00 acres 9.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA W-15						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual						
	P 0.0	0.0	0.0	0.0	0.31	2.32	2.08	3.48	0.85	2.67	0.84	0.15	12.71						
1972	Q 0.0	0.0	0.0	0.0	0.0	0.023	0.002	0.008	0.0	0.002	0.0	0.0	0.033						
STA AV	P 0.34	0.47	0.40	0.17	0.17	0.42	3.44	3.65	1.29	0.57	0.33	1.17	12.43						
	Q 0.0	0.0	0.0	0.0	0.0	0.003	0.036	0.128	0.015	0.000	0.0	0.0	0.182						
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
Maximum Discharge				1 Hour				2 Hours				Maximum Volume for Selected Time Interval							
Date		Date		Vol.		Date		Vol.		Date		Vol.		1 Day		2 Days		8 Days	
Date		Date		Vol.		Date		Vol.		Date		Vol.		Date		Date		Date	
1972	6-6	0.018	6-6	0.011	6-6	0.013	6-6	0.014	6-6	0.014	6-6	0.014	6-6	0.014	6-6	0.014	6-6	0.014	0.023
MAXIMUMS FOR PERIOD OF RECORD																			
8-10		0.211		8-10		0.144		8-10		0.180		8-19		0.200		8-19		0.200	
1971		1971		1971		1971		1966		1966		1966		1966		1966		1966	

NOTES: Watershed conditions: Vegetative cover: Desert shrubs (whitethorn, creosotebush, tarbush) occupy 78% of the area with a cross spread of approximately 30% and an understorey of grasses of less than 1% basal area. 22% of the area is in grass cover (black grama, tobosa grass, blue grama, sidecoats grama, and curly mesquite grass) of approximately 2% basal area. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1965. Monthly totals Thiessen weighted averages of 15 rain gages. Runoff Data: Records began January 1965. Station averages for precipitation and runoff based on 1965-1972 record period. Temperature Data: For table of daily maximum and minimum values, see information included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1972 DAILY PRECIPITATION (inches)												TOMBSTONE, ARIZONA W-15			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0					0.0	0.0	0.0	0.26	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.058	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.518	0.0	0.0	0.001			
5	0.0	0.0	0.0	0.0	0.0	0.178	0.028	0.048	0.01	0.078	0.0	0.01			
6	0.0	0.0	0.0	0.0	0.0	1.168	0.01	0.578	0.008	0.388	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.018	0.10	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.228	0.108	0.338	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.278	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.048	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.128	0.0	0.0	0.09	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.088	0.058	0.888	0.0	0.0	0.248	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.56	0.058	0.0	0.15	0.0	0.0	0.001			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.628	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.0	0.0	0.028	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.001	0.0	0.368	0.47	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.0	0.298	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.138	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.78	0.08	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.738	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.01			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.15	0.0	0.0	0.0	0.03			
29	0.0	0.0	0.0	0.0	0.258	0.0	0.36	0.001	0.001	0.0	0.0	0.008			
30	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.018	0.0	0.02	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0			
TOTAL	0.0	0.0	0.0	0.0	0.31	2.32	2.08	3.48	0.85	2.67	0.84	0.15			
STA AV	0.34	0.47	0.40	0.17	0.17	0.42	3.44	3.65	1.29	0.57	0.33	1.17			

NOTES: Data are Thiessen weighted averages of 15 rain gages. STA AV are based on 8 yr record period (1965-72).

1972 MEAN DAILY DISCHARGE (cfs)						TOMBSTONE, ARIZONA W-15							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	3.352	0.0	0.0	0.0	0.016	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.117	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	1.898	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	2.131	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.376	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.396	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.1867	0.0129	0.0621	0.0	0.0127	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.023	0.002	0.008	0.0	0.002	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.003	0.036	0.128	0.015	0.000	0.0	0.0	

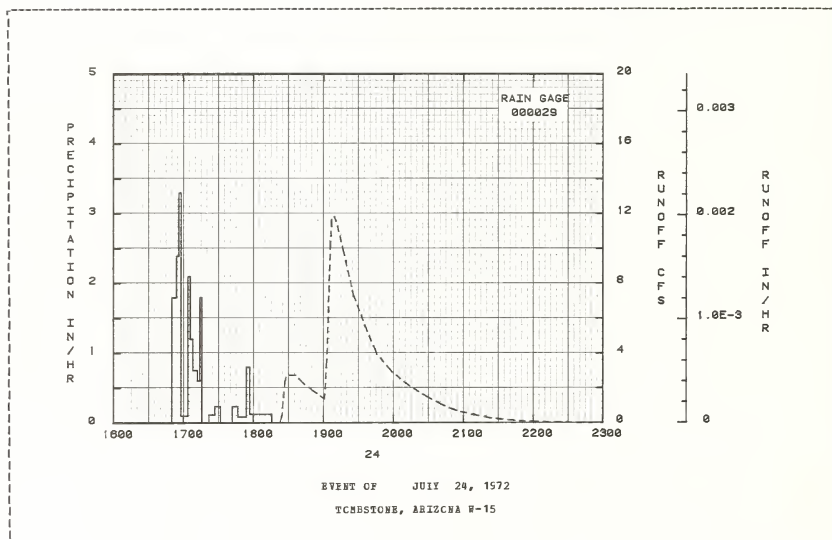
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.004026. STA AV are based on 8 yr record period (1965-1972).

1972 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA W-15					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JULY 24, 1972											
7-24	RG 000029 0.0	0.0	7-24	RG 000029	0.0	0.0	7-24	1823	0.0	0.0	
				1650	1.6000	0.12		1825	0.584	0.0	
				1656	2.3955	0.20		1827	2.327	0.0	
				1658	3.3008	0.31		1828	2.624	0.0	
				1704	0.1000	0.32		1831	2.737	0.0	
WATERSEED CONDITIONS:											
Vegetative cover: Desert shrubs (whitethorn, creosote-bush, tarbush) occupy 78% of area with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. 22% of the area supports a grass cover (black grama, tobosa, blue grama, sideoats grama and curly mesquite) of approximately 2% basal area.				1706	2.1005	0.39		1836	2.737	0.0	
				1708	1.1997	0.43		1844	2.198	0.0001	
				1712	0.7500	0.48		1854	1.704	0.0002	
				1714	0.6002	0.50		1901	1.374	0.0002	
				1716	1.7556	0.56		1903	3.670	0.0002	
				1722	0.0	0.56		1906	10.411	0.0003	
				1727	0.1200	0.57		1907	11.658	0.0003	
				1732	0.2400	0.59		1909	11.825	0.0004	
				1742	0.0	0.59		1911	11.572	0.0005	
				1747	0.2400	0.61		1917	5.882	0.0007	
				1754	0.0657	0.62		1926	7.282	0.0009	
				1757	0.8000	0.66		1936	5.534	0.0011	
				1816	0.1263	0.70		1946	3.945	0.0012	
								1959	2.911	0.0013	
								2014	2.059	0.0014	
								2029	1.493	0.0015	
								2044	0.953	0.0016	
								2054	0.656	0.0016	
								2109	0.451	0.0016	
								2124	0.264	0.0016	
								2134	0.194	0.0016	
								2144	0.120	0.0016	
								2200	0.062	0.0016	
								2209	0.033	0.0016	
								2224	0.014	0.0016	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000166.

1972 SELECTED RUNOFF EVENT			TCHESSTONE, ARIZONA W-15							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 24, 1972 (CONTINUED)										
							7-24	2239	0.005	0.0016
								2254	0.002	0.0016
								2306	0.0	0.0016

NOTES: To convert runoff in CFS to in/hr, multiply by 0.000168.



1970 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA WATERSHED 63.103												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.34	0.0	0.12	0.0	0.0													
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.20	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0													
5	0.0	0.0	0.338	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.288	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	1.44	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.24	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.16	0.0	0.0	0.0	0.0													
11	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0													
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0													
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0													
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0													
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0													
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.13	0.0	0.0													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
TOTAL	0.0	0.19	1.18	0.14	0.0	0.0	1.13	3.33	2.69	6.12	0.0	0.38													
STA AV	0.34	0.53	0.46	0.19	0.12	0.13	2.95	2.75	1.92	0.05	0.23	1.39													

NOTES: Data are values from rain gage No. 83. STA AV values are based on record period 1965-70.

1971 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA WATERSHED 63.103												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.05	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.09	0.0	0.0	0.0													
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.06	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.0	0.0	0.0	0.17	1.18	0.0	0.0	0.0	0.0													
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0													
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.09	0.0	0.0	0.0	0.0													
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	0.088	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.03	0.0	0.03	0.12	0.0													
17	0.0	0.10	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.39	0.0	0.0													
18	0.0	0.0	0.0	0.098	0.0	0.0	0.12	0.95	1.01	0.0	0.0	0.21													
19	0.0	0.0	0.0	0.208	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
23	0.0	0.0	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.09	0.65	0.16	0.0	0.58	0.0	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.26	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0													
29	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.64	0.0	0.0	0.0													
30	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.20													
TOTAL	0.0	0.10	0.0	0.37	0.0	0.09	3.30	4.58	1.85	1.62	0.14	1.32													
STA AV	0.29	0.47	0.40	0.22	0.10	0.12	3.00	3.01	1.91	0.28	0.22	1.38													

NOTES: Data are values from rain gage No. 83. STA AV values are based on record period 1965-71.

1972 DAILY PRECIPITATION (inches)												TOMBSTONE, ARIZONA WATERSHED 63.103	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.08	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.27	0.31	0.19	0.0	0.09	0.0	0.02	
6	0.0	0.0	0.0	0.0	0.0	1.14	0.0	0.21	0.92	0.58	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.11	0.08	0.44	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.11	0.04	0.87	0.0	0.0	0.25E	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.05	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.50	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	1.00	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.17	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.04	0.0	0.0	0.0	0.01	
29	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.44	0.0	0.0	0.0	0.04	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.0	0.0	0.0	0.07	1.64	2.45	3.09	1.23	2.71	0.92	0.07	
STA AV	0.26	0.41	0.35	0.19	0.10	0.31	2.53	6.02	1.63	0.58	0.31	1.22	

NOTES: Data are values from rain gage No. 83. STA AV values are based on record period 1965-72.

1969 MEAN DAILY DISCHARGE (cfs)												TOMBSTONE, ARIZONA WATERSHED 63.103	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008E	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.073	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0008	0.0028	0.0004	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.062	0.229	0.035	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.064	0.288	0.055	0.0	0.0	0.0	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.615566. STA AV based on record period 1965-69.

1970 MEAN DAILY DISCHARGE (cfs)							TOMBSTONE, ARIZONA WATER SHEET 63-103					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014E	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.231	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.061	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0276	0.0077	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.225	0.604	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.053	0.278	0.146	0.0	0.0	0.010

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.615566. STA AV based on record period 1965-70.

1971 MEAN DAILY DISCHARGE (cfs)							TOMBSTONE, ARIZONA WATER SHEET 63-103					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.185E	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.126E	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.089E	0.046	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.110	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.086E	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.001	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0064	0.0133	0.0015	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.517	1.075	0.122	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.119	0.392	0.143	0.0	0.0	0.009

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.615566. STA AV based on record period 1965-71.

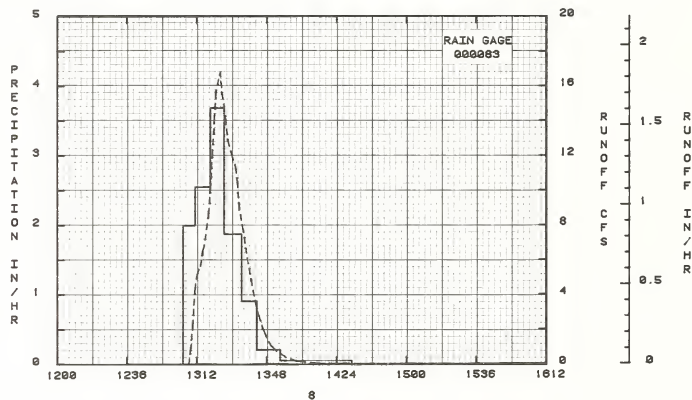
1972						TOMBSTONE, ARIZONA WATERSHED 63.103																		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.039	0.0	0.0	0.126E	0.057E	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002E	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018E	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001E	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016E	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.070E	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0							0.0		0.0														
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0013	0.0007	0.0014	0.0042	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.101	0.053	0.112	0.330	0.216	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.111	0.357	0.166	0.027	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.615566. STA AV based on record period 1965-72.

SELECTED RUNOFF EVENT												TOMBSTONE, ARIZONA WATERSHED 63.103											
ANTECEDENT CONDITIONS						RAINFALL						RUNOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		Date	Time	Rate	Acc.								
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(cfs)	(inches)								
EVENT OF SEPTEMBER 8, 1970																							
EG 000083						EG 000083																	
9- 8	0.0	0.0	9- 8	1305	0.0	0.0	9- 8	1308	0.0	0.0		9- 8	1308	0.0	0.0								
				1311	2.0000	0.20		1309	1.111	0.0009			1309	1.111	0.0009								
				1319	2.5500	0.54		1310	2.237	0.0038			1310	2.237	0.0038								
				1326	3.6857	0.97		1311	4.326	0.0094			1311	4.326	0.0094								
				1335	1.6667	1.25		1312	5.051	0.0154			1312	5.051	0.0154								
WATERSHED CONDITIONS:																							
Vegetative cover: Entire						1343	0.9000	1.37	1313	5.459	0.0283												
area dominated by desert						1355	0.2000	1.41	1314	5.674	0.0378												
shrubs (Whitehorn, creosote-						1432	0.0486	1.44	1315	6.517	0.0508												
bush, and tarbush) with									1316	6.873	0.0622												
a crown spread of about 25%									1317	7.790	0.0747												
and an understory of grasses									1318	8.661	0.0887												
with about 0.6% basal cover.									1319	10.075	0.1086												
									1320	12.039	0.1274												
									1321	14.103	0.1497												
									1322	15.773	0.1751												
									1324	16.819	0.2375												
									1325	15.535	0.2650												
									1326	14.837	0.2509												
									1327	13.751	0.3214												
									1328	12.819	0.3441												
									1330	12.020	0.3517												
									1332	11.277	0.4314												
									1333	10.158	0.4497												
									1334	8.867	0.4699												
									1336	7.564	0.4979												
									1338	6.074	0.5240												
									1340	4.804	0.5425												
									1342	3.554	0.5866												
									1344	2.749	0.5654												
									1346	2.038	0.5786												

1570 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED 63.103									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 8, 1970 (CONTINUED)												
5- 8							1348	1.512	0.5846			
							1350	1.068	0.5855			
							1353	0.725	0.5945			
							1358	0.370	0.5954			
							1403	0.172	0.6018			
							1408	0.051	0.6030			
							1413	0.031	0.6035			
							1418	0.003	0.6037			
							1428	0.0	0.6037			
							1438	0.0	0.6037			
							1458	0.0	0.6037			

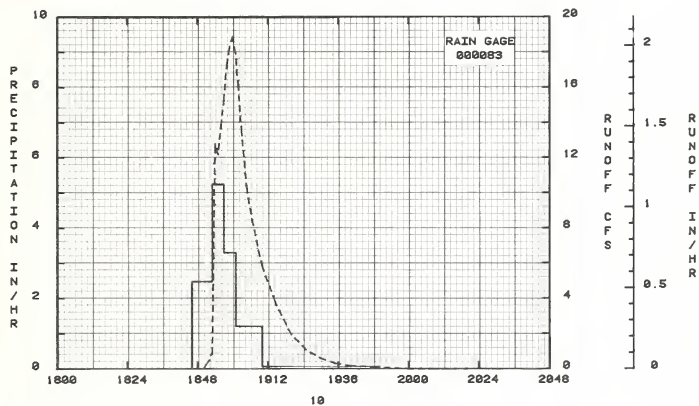
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.108582.



EVENT OF SEPTEMBER 8, 1970
TOMBSTONE, ARIZONA WATERSHED 63.103

1971 SELECTED RUNOFF EVENT										TONESTONE, ARIZONA WATERSHED 63.103									
ATTACHED CONDITIONS			RAINFALL				RUNOFF												
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)									
EVENT OF AUGUST 10, 1971																			
EG 000083			EG 000083																
8-10	0.0	0.0	8-10	1846	0.0	0.0	8-10	1850	0.0	0.0									
				1853	2.4857	0.29		1852	0.487	0.0008									
				1857	5.2501	0.64		1853	0.883	0.0023									
				1901	3.3000	0.86		1854	12.782	0.0139									
				1910	1.2001	1.04		1855	12.167	0.0351									
WATERSHED CONDITIONS:			1950 0.0600 1.08				1856 13.628 0.0572												
Vegetative cover: Entire							1857 15.287 0.0882												
area dominated by desert							1858 17.287 0.1159												
shrubs (Whitehorn, creosotebush, and tarbush) with							1859 18.342 0.1462												
a crown speed of about 25%							1900 16.875 0.1858												
and an understory of grasses							1901 17.884 0.2171												
with about 0.6% basal cover.							1902 15.837 0.2458												
							1903 13.562 0.2708												
							1904 11.718 0.2577												
							1905 9.983 0.3162												
							1907 8.160 0.3471												
							1910 5.817 0.3858												
							1915 3.580 0.4298												
							1920 1.536 0.4585												
							1925 1.074 0.4680												
							1930 0.595 0.4758												
							1935 0.298 0.4798												
							1940 0.158 0.4818												
							1950 0.066 0.4839												
							2000 0.0 0.4845												

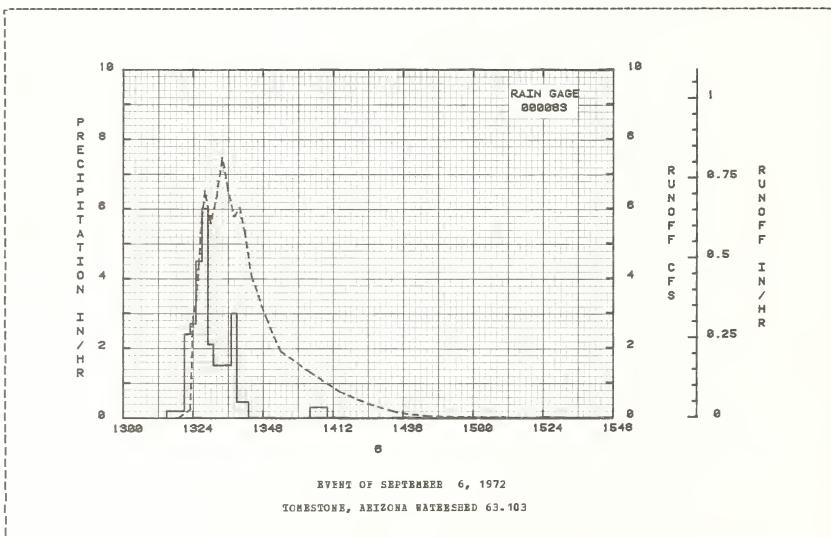
NOTES: To convert runoff in CFS to IBS/HR, multiply by 0.106982.



EVENT OF AUGUST 10, 1971
TONESTONE, ARIZONA WATERSHED 63.103

1972 SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA WATERSHED 63.103							
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date	Rainfall	Runoff		Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1972											
EG 000083				EG 000083							
9- 6	0.0	0.0	9- 6	1315	0.0	0.0	0.0	9- 6	1319	0.0	0.0
				1321	0.2000	0.02	0.02		1323	0.238	0.0009
				1323	2.4000	0.10	0.10		1324	2.511	0.0036
				1325	2.7000	0.19	0.19		1325	3.374	0.0090
				1327	4.5000	0.34	0.34		1326	4.558	0.0158
WATERSHED CONDITIONS:				1329	6.0001	0.54	0.54		1327	5.750	0.0268
Vegetative cover: Entire				1331	2.1000	0.61	0.61		1328	6.533	0.0373
area dominated by desert				1335	1.5000	0.71	0.71		1330	5.566	0.0605
shrubs (Whitehorn, creosotebush, and tarbush) with				1337	1.5000	0.76	0.76		1332	6.352	0.0608
a crown spread of about 25%				1339	2.9999	0.86	0.86		1334	7.481	0.1073
and an understory of grasses											
with about 0.6% basal cover.				1343	0.4500	0.89	0.89		1336	6.533	0.1312
				1404	0.0	0.89	0.89		1338	5.771	0.1548
				1410	0.3000	0.92	0.92		1340	6.026	0.1749
									1342	5.180	0.1964
									1344	4.060	0.2121
									1349	2.860	0.2485
									1354	1.800	0.2658
									1404	1.303	0.2951
									1414	0.751	0.3135
									1424	0.367	0.3239
									1434	0.139	0.3287
									1444	0.027	0.3302
									1459	0.0	0.3306

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.108982.



SANTA ROSA, NEW MEXICO WATERSHED W-1

LOCATION: Guadalupe and Quay Counties; 30 miles east of Santa Rosa; Alamogordo Creek, Tributary of Pecos River.
 Lat. 34 deg. 51 min. 53 sec. N.; Long. 104 deg. 12 min. 23 sec. W.

AREA: 42880.00 acres 67.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													SANTA ROSA, NEW MEXICO WATERSHED W-1												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1972	P 0.0	0.04	0.00	0.01	0.84	1.94	6.76	6.50	1.57	1.68	1.15	0.31	20.80												
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.625	0.283	0.013	0.000	0.001	0.001	0.922												
STA AV	P 0.17	0.16	0.25	0.48	1.06	1.62	3.87	3.21	1.50	1.42	0.57	0.25	14.59												
	Q 0.0	0.0	0.0	0.0	0.022	0.014	0.157	0.085	0.031	0.004	0.000	0.000	0.312												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
	Maximum Discharge Date	1 Hour Rate	2 Hours Rate	6 Hours Rate	12 Hours Rate	1 Day Rate	2 Days Rate	8 Days Rate																	
1972	7-20	0.099	7-20	0.087	7-20	0.147	7-20	0.300	7-20	0.359	7-20	0.503	7-15	0.509											
MAXIMUMS FOR PERIOD OF RECORD																									
	7-20	0.099	7-20	0.087	7-20	0.147	7-20	0.300	7-20	0.359	7-20	0.503	7-15	0.509											
	1972		1972		1972		1972		1972		1972		1972												

NOTES: Watershed conditions: Grazing land, about 75% of the area is grassland, vegetation consisting of blue grama, galleta, buffalo and ring holly. Remaining 25% of area is piñon, juniper, and various shrubs, with some grasses interspersed. Monthly precipitation values are Thiessen weighted averages of 64 rain gages. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1760, p. 64.001-3. Precipitation and runoff records began in 1955. STA AV based on 5 yr (1968-72), previously published data are being reevaluated. For long-time precipitation records, see National Weather Service records at Santa Rosa, New Mexico.

1972 DAILY PRECIPITATION (inches)													SANTA ROSA, NEW MEXICO WATERSHED W-1												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.001	0.0	0.001	0.001	0.14E	0.05E	0.0	0.08	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0													
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.28E	0.001	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.001	0.0	0.15E	0.0	0.0	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.07E	0.0	0.25E	0.0	0.001	0.001	0.0	0.0													
6	0.0	0.0	0.0	0.0	0.21E	0.0	0.12E	0.03	0.0	0.02	0.0	0.0													
7	0.0	0.0	0.0	0.0	0.25E	0.0	0.01	0.0	0.0	0.0	0.001	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.01	0.37E	0.60	0.10E	0.0	0.03	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32E	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.0	0.001	0.03	0.0	0.0	0.02	0.0	0.0	0.001													
11	0.0	0.00E	0.0	0.0	0.0	0.65E	0.49E	0.0	0.12	0.0	0.001	0.21E													
12	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.00E	0.0	0.01	0.00E													
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.00E	0.0	0.0													
15	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.22E	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.53	0.08E	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.001	0.0	0.54E	0.0	0.0	0.0	0.16E	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	1.32E	0.04E	0.01	0.01E	0.37E	0.0													
19	0.0	0.0	0.0	0.0	0.0	0.0	0.27E	0.43E	0.53E	0.59E	0.0	0.0													
20	0.0	0.0	0.0	0.0	0.0	0.0	1.54E	0.001	0.25E	0.54E	0.04E	0.0													
21	0.0	0.0	0.0	0.0	0.06	0.0	0.11E	0.06	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.50E	0.0	0.0	0.0	0.0													
23	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.22E	0.0	0.19E	0.05E	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.41E	0.0													
25	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.001	0.09	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.23E	0.0	0.001	0.0	0.0													
27	0.0	0.0	0.0	0.001	0.001	0.0	0.0	2.07E	0.001	0.0	0.0	0.0													
28	0.0	0.0	0.001	0.0	0.20	0.0	0.0	0.91E	0.0	0.0	0.0	0.04E													
29	0.0	0.0	0.0	0.04	0.15	0.0	0.0	0.09	0.0	0.0	0.0	0.06E													
30	0.0	0.0	0.0	0.0	0.001	0.03	0.0	0.001	0.0	0.0	0.001	0.001													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.22E	0.15E	0.0	0.01	0.0	0.0													
TOTAL	0.0	0.04	0.00	0.01	0.84	1.94	6.76	6.50	1.57	1.68	1.15	0.31													
STA AV	0.17	0.16	0.25	0.48	1.06	1.62	3.87	3.21	1.50	1.42	0.57	0.29													

NOTES: Daily values are Thiessen weighted average amounts from 64 rain gages. Precipitation records began in 1955. STA AV are based on 5 yr (1968-72).

1972						SANTA ROSA, NEW MEXICO WATERSHED W-1						
MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.28	0.0	0.02	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.17	0.0	0.02	0.07
3	0.0	0.0	0.0	0.0	0.0	0.0	15.37	0.02	0.15	0.0	0.01	0.02
4	0.0	0.0	0.0	0.0	0.0	0.0	155.95	0.01	0.02	0.0	0.01	0.05
5	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.01	0.20	0.0	0.01	0.03
6	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.07	0.00	0.01	0.07
7	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.05	0.0	0.01	0.11
8	0.0	0.0	0.0	0.0	0.0	0.0	3.27	7.88	0.01	0.0	0.01	0.01
9	0.0	0.0	0.0	0.0	0.0	0.0	8.63	0.56	0.04	0.0	0.02	0.03
10	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.03	0.04	0.0	0.01	0.03
11	0.0	0.0	0.0	0.0	0.0	0.0	19.46	0.01	0.03	0.0	0.01	0.09
12	0.0	0.0	0.0	0.0	0.0	0.0	3.54	0.0	0.06	0.0	0.01	0.04
13	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.02	0.05	0.02	0.01	0.05
14	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.04	0.00	0.01	0.03
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.04	0.01	0.01	0.05
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.02	0.00	0.00	0.17
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.02	0.04
18	0.0	0.0	0.0	0.0	0.0	0.0	26.82	0.0	0.0	0.01	0.05	0.05
19	0.0	0.0	0.0	0.0	0.0	0.0	240.15	0.02	0.07	0.02	0.06	0.02
20	0.0	0.0	0.0	0.0	0.0	0.0	64.82	0.01	21.27	0.17	0.05	0.05
21	0.0	0.0	0.0	0.0	0.0	0.0	8.09	0.00	0.58	0.05	0.05	0.03
22	0.0	0.0	0.0	0.0	0.0	0.0	0.82	0.01	0.12	0.01	0.04	0.01
23	0.0	0.0	0.0	0.0	0.0	0.0	0.24	3.34	0.05	0.04	0.04	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.18	0.02	0.03	0.17	0.02
25	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.01	0.01	0.02	0.11	0.02
26	0.0	0.0	0.0	0.0	0.0	0.0	0.02	15.21	0.02	0.05	0.10	0.02
27	0.0	0.0	0.0	0.0	0.0	0.0	0.01	45.05	0.0	0.03	0.08	0.02
28	0.0	0.0	0.0	0.0	0.0	0.0	0.01	425.38	0.0	0.02	0.04	0.01
29	0.0	0.0	0.0	0.0	0.0	0.0	0.01	8.81	0.03	0.01	0.01	0.12
30	0.0	0.0	0.0	0.0	0.0	0.0	0.01	2.54	0.0	0.02	0.05	0.03
31	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.59	0.0	0.02	0.0	0.04
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	36.305	16.443	0.783	0.017	0.037	0.043
INCREP	0.0	0.0	0.0	0.0	0.0	0.0	0.625	0.283	0.013	0.000	0.001	0.001
STA AV	0.0	0.0	0.0	0.0	0.022	0.014	0.157	0.085	0.031	0.004	0.000	0.000

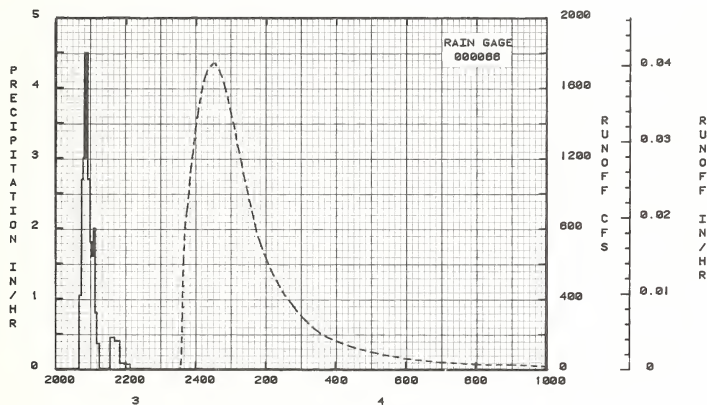
NOTES: To convert mean daily discharge in CFS to I³/DAY, multiply by 0.000555. Runoff records began in 1955. STA AV based on 5 yr (1968-72).

1972 SELECTED RUNOFF EVENT						SANTA ROSA, NEW MEXICO WATERSEED W-1					
INTERCURRENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Intensity	Acc.	Date	Intensity	Acc.	Date	Intensity	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	(in/hr)	(inches)	Mo-Day	(in/hr)	(inches)	Mo-Day	(in/hr)	(inches)
EVENT OF JULY 3 - 4, 1972											
7- 3 EG 000066 0.0 0.0 7- 3 EG 000066											
2040 0.0 0.0 2040 0.0											
2044 1.0500 0.07 2044 8.443 0.0											
2046 2.6594 0.16 2046 25.581 0.0											
2048 3.0007 0.26 2048 52.000 0.0											
2050 4.4590 0.41 2050 289.356 0.0001											
WATERSEED CONDITIONS:											
Grazing land, about 75% of											
the area is grassland,											
vegetation consisting of blue											
grass, galleta, buffalo and											
ring mulch. Remaining 25%											
of area is piñon, juniper,											
and various shrubs, with											
some grasses interspersed.											
2052 3.0007 0.51 2052 532.253 0.0003											
2054 4.4590 0.66 2054 615.558 0.0005											
2056 2.6594 0.75 2056 706.224 0.0007											
2058 2.7007 0.64 2058 836.230 0.0013											
2101 1.7599 0.93 2101 867.791 0.0015											
2104 1.5599 1.01 2104 940.969 0.0026											
2107 2.0005 1.11 2107 1014.406 0.0033											
2110 0.8000 1.15 2110 1050.740 0.0042											
2115 0.3600 1.18 2115 1171.354 0.0050											
2133 0.0 1.18 2133 1222.042 0.0060											
2141 0.4500 1.24 2141 1367.436 0.0085											
2150 0.4000 1.30 2150 1483.475 0.0113											
2158 0.0705 1.31 2158 1580.000 0.0162											
2208 0.0600 1.32 2208 1654.260 0.0173											
15 1655.658 0.0206											
24 1725.229 0.0238											
29 1740.646 0.0271											
32 1740.646 0.0291											
34 1725.229 0.0305											
39 1659.658 0.0337											
44 1659.277 0.0365											
49 1604.550 0.0401											
54 1540.957 0.0431											
59 1455.862 0.0459											
104 1354.621 0.0487											

NOTES: To convert runoff in CFS to I³/HR, multiply by 0.0000231.

1972 SELECTED RUNOFF EVENT				SANTA ROSA, NEW MEXICO WATERSHED W-1							
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 3 - 4, 1972 (CONTINUED)											
7- 4								109	1304.675	0.0513	
								114	1226.319	0.0537	
								115	1146.406	0.0551	
								124	1067.533	0.0582	
								129	952.071	0.0602	
								134	923.062	0.0621	
								139	853.238	0.0638	
								144	779.750	0.0653	
								149	728.212	0.0668	
								154	661.527	0.0681	
								159	642.383	0.0694	
								204	558.730	0.0706	
								209	559.450	0.0717	
								214	525.573	0.0727	
								219	457.965	0.0737	
								224	466.501	0.0746	
								229	440.145	0.0755	
								234	414.654	0.0763	
								244	373.245	0.0778	
								254	327.633	0.0792	
								304	291.451	0.0804	
								314	259.548	0.0814	
								324	228.003	0.0823	
								334	203.544	0.0831	
								344	184.124	0.0838	
								354	169.088	0.0845	
								404	154.808	0.0851	
								434	120.322	0.0867	
								504	54.285	0.0879	
								600	55.437	0.0856	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000231.



EVENT OF JULY 3 - 4, 1972
SANTA ROSA, NEW MEXICO WATERSHED W-1

LOCATION: Butte Co., South Dakota, 33 mi. NE of Newell, Sand Creek, South Missouri River Watershed.

AREA: 115.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													NEWELL, SOUTH DAKOTA				WATERSHED W-2	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
P	0.25	0.24	0.48	0.82	5.20	2.84	1.42	1.57	0.04	0.89	0.12	0.64	14.51					
1972 Q	0.0	0.446	0.275	0.0	1.088	0.026	0.005	0.007	0.0	0.001	0.0	0.0	1.848					
STA AV P	0.25	0.26	0.42	1.19	2.25	3.05	1.77	0.99	0.59	0.58	0.33	0.29	12.41					
Q	0.006	0.084	0.202	0.020	0.147	0.074	0.124	0.000	0.007	0.001	0.0	0.0	0.665					

NOTES: Watershed conditions: 100% rangeland; Condition classes: excellent - 19%; good - 64%; fair - 17%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.2-4. Precipitation from rain gage W-2A. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 15 yr (1958-72) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1972 DAILY PRECIPITATION (inches)						NEWELL, SOUTH DAKOTA				WATERSHED W-2		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.075	0.0	0.0	0.055	0.0	0.0	0.40	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.15	0.0	0.12	0.23	0.0	0.0	0.0	0.0
3	0.0	0.015	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.085
4	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.105
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.685	0.0	0.065
6	0.0	0.0	0.045	0.105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
8	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.025	0.0	0.0	0.15	0.50	0.0	0.02	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.85	0.11	0.28	0.0	0.0	0.0	0.0	0.0
11	0.055	0.0	0.0	0.10	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.015	0.0	0.045	0.0	0.0	0.0	0.02	0.10	0.0	0.0	0.045	0.0
13	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.085	0.0
14	0.0	0.0	0.095	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0
15	0.0	0.075	0.0	0.0	0.0	0.15	0.0	0.04	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.02	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.015	0.0	0.10	0.0	0.24	0.0	0.0	0.0	0.0
19	0.025	0.0	0.0	0.075	0.0	0.32	0.0	0.22	0.0	0.0	0.0	0.0
20	0.0	0.0	0.025	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.215
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.095
24	0.0	0.0	0.125	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.015	0.0	3.53	1.04	0.0	0.0	0.03	0.0	0.0	0.0
26	0.105	0.0	0.105	0.28	0.0	0.03	0.24	0.0	0.0	0.05	0.0	0.0
27	0.035	0.0	0.0	0.04	0.0	0.08	0.33	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.07	0.0	0.13	0.0	0.0	0.01	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.185	0.0	0.045
30	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.065
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
TOTAL	0.25	0.24	0.48	0.82	5.20	2.84	1.42	1.57	0.04	0.89	0.12	0.64
STA AV	0.25	0.26	0.42	1.19	2.29	3.05	1.77	0.99	0.59	0.58	0.33	0.29

NOTES: Precipitation from rain gage W-2A. STA AV based on 15 yr (1958-72) record period.

1972		MEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH DAKOTA					WATERSHED W-2		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.077	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	1.184	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	5.175	0.106	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	2.155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0		0.0		0.0	0.0		0.0		0.0		
MEAN	0.0	0.0770	0.0429	0.0	0.1696	0.0042	0.0008	0.0011	0.0	0.0002	0.0	0.0		
INCHES	0.0	0.446	0.275	0.0	1.088	0.026	0.005	0.007	0.0	0.001	0.0	0.0		
STA AV	0.006	0.084	0.202	0.020	0.147	0.074	0.124	0.000	0.007	0.001	0.0	0.0		

NOTES: STA AV based on 15 yr (1958-72) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.20697.

NEWELL, SOUTH DAKOTA WATERSHED W-5

LOCATION: Butte Co., South Dakota, 34 mi. NE of Newell, South Korean River Watershed.

AREA: 46.00 acres

		MONTHLY PRECIPITATION AND RUNOFF (inches)							NEWELL, SOUTH DAKOTA		WATERSHED W-5			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972	P	0.62	0.13	0.54	1.71	2.96	4.05	1.23	1.41	0.42	0.80	0.15	0.74	14.76
	Q	0.0	0.592	0.380	0.0	0.283	0.465	0.0	0.069	0.0	0.0	0.0	0.0	1.789
STA AV	P	0.30	0.38	0.58	1.53	2.62	3.97	1.74	1.29	1.03	0.65	0.42	0.40	14.92
	Q	0.014	0.067	0.286	0.028	0.105	0.243	0.049	0.075	0.008	0.011	0.001	0.0	0.886

NOTES: Watershed conditions: 100% rangeland; Condition classes: excellent - 7%; good - 93%; Degree of grazing: moderate; Production of cover: 2200 pounds per acre of oven-dry material. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.5-4. Precipitation from rain gage W-5A. Precipitation and runoff records began January 1956. Precipitation and runoff STA AV based on 15 yr (1956-72) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1972		DAILY PRECIPITATION (inches)										NEWELL, SOUTH DAKOTA WATERSHED W-5	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.035	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.055	0.0	0.0	0.10	0.14	0.0	0.0	0.0	0.0
3	0.0	0.0	0.125	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.085
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.255
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.025
6	0.0	0.055	0.015	0.105	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0
7	0.0	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.045
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.065
9	0.0	0.0	0.0	0.0	0.0	0.20	1.45	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	1.05	0.95	0.0	0.0	0.0	0.0	0.0	0.0
11	0.105	0.0	0.035	0.285	0.54	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0
12	0.055	0.0	0.015	0.0	0.0	0.10	0.0	0.0	0.05	0.0	0.0	0.095	0.0
13	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.065	0.0
14	0.0	0.0	0.085	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.55	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.19	0.10	0.0	0.11	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.085	0.01	0.35	0.0	0.06	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.035	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.055
23	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.105
24	0.055	0.0	0.235	0.0	0.0	0.05	0.0	0.0	0.03	0.0	0.0	0.0	0.0
25	0.0	0.0	0.025	0.0	0.65	0.60	0.0	0.0	0.22	0.0	0.0	0.0	0.0
26	0.0	0.0	0.045	0.52	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0
27	0.175	0.0	0.0	0.09	0.02	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.105	0.0
30	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.045	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
TOTAL	0.62	0.13	0.54	1.71	2.96	4.05	1.23	1.41	0.42	0.80	0.15	0.74	
STA AV	0.30	0.38	0.58	1.53	2.62	3.97	1.74	1.29	1.03	0.65	0.42	0.40	

NOTES: Precipitation from rain gage W-5A. STA AV based on 15 yr (1956-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH DAKOTA WATERSHED #5						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.734	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.282	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.224	0.584	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.093	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.133	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.112	0.014	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0395	0.0237	0.0	0.0176	0.0300	0.0	0.0043	0.0	0.0	0.0	0.0
INCHES	0.0	0.592	0.380	0.0	0.283	0.465	0.0	0.069	0.0	0.0	0.0	0.0
STA AV	0.014	0.067	0.286	0.028	0.105	0.243	0.049	0.075	0.008	0.011	0.001	0.0

NOTES: STA AV based on 15 yr (1958-72) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.51743.

LOCATION: Butte Co., South Dakota, 35 mi. NE of Newell, Tributary Trail Creek, South Moreau Watershed.

AREA: 160.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												NEWELL, SOUTH DAKOTA WATERSHED W-7	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	0.48	0.10	0.46	1.70	2.90	4.23	1.28	1.99	0.52	0.71	0.10	0.48	14.95
Q	0.0	0.477	0.424	0.0	0.050	0.230	0.002	0.191	0.0	0.002	0.0	0.0	1.376
STA AV P	0.26	0.29	0.53	1.31	2.47	3.56	1.67	1.21	0.96	0.58	0.37	0.32	13.51
Q	0.018	0.046	0.238	0.017	0.032	0.097	0.024	0.026	0.003	0.004	0.0	0.0	0.505

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 82%; fair - 18%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.7-6. Precipitation from rain gage W-7a. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 15 yr (1958-72) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1972 DAILY PRECIPITATION (inches)												NEWELL, SOUTH DAKOTA WATERSHED W-7	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.03S	0.0	0.0	0.26S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.05S	0.0	0.0	0.10	0.13	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.10S	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.08S
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10S
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61M	0.0	0.0	0.02S
6	0.0	0.02S	0.01S	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.05S	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.01S
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06S
9	0.0	0.0	0.0	0.0	0.14	2.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.96	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.10S	0.0	0.03S	0.30S	0.50	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0
12	0.03S	0.0	0.01S	0.0	0.0	0.10	0.0	0.08	0.0	0.0	0.09S	0.0	0.0
13	0.03S	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.01S	0.0	0.0	0.0
14	0.0	0.0	0.08S	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.02S	0.0	0.0	0.0	0.12	1.13	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.21	0.10	0.0	0.08	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.08S	0.01	0.32	0.0	0.06	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.03S	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.12S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10S
23	0.05S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S
24	0.05S	0.0	0.17S	0.0	0.0	0.20	0.0	0.0	0.04	0.0	0.0	0.0	0.0
25	0.0	0.0	0.02S	0.0	0.70	0.44	0.0	0.0	0.35	0.0	0.0	0.0	0.0
26	0.0	0.0	0.02S	0.53M	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.0	0.0
27	0.11S	0.0	0.0	0.08S	0.03	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.08S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.07S
30	0.0	0.0	0.0	0.44S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0
TOTAL	0.48	0.10	0.46	1.70	2.90	4.23	1.28	1.99	0.52	0.71	0.10	0.48	
STA AV	0.26	0.29	0.53	1.31	2.47	3.56	1.67	1.21	0.96	0.58	0.37	0.32	

NOTES: Precipitation from rain gage W-7a. STA AV based on 15 yr (1958-72) record period.

1972												
MEAN DAILY DISCHARGE (cfs)												
NEWELL, SOUTH DAKOTA WATERSHED W-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.054	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0
6	0.0	0.0	2.850	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.074	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.114	1.472	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.121	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.284	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.047	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	3.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.1106	0.0519	0.0	0.0108	0.0515	0.0004	0.0414	0.0	0.0004	0.0	0.0
INCHES	0.0	0.477	0.424	0.0	0.050	0.230	0.002	0.191	0.0	0.002	0.0	0.0
STA AV	0.018	0.046	0.238	0.017	0.032	0.097	0.024	0.026	0.003	0.004	0.0	0.0

NOTES: STA AV based on 15 yr (1958-72) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.14876.

LOCATION: Rutte Co., South Dakota, 9 mi. East of Newell, Rellé Fourche River Watershed.

AREA: 90.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												NEWELL, SOUTHER DAKOTA WATERSHED W-12	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	0.55	0.11	0.29	1.45	2.76	4.81	1.16	2.18	0.18	0.78	0.12	0.38	14.77
Q	0.0	0.259	0.0	0.0	0.793	0.962	0.0	0.006	0.0	0.005	0.0	0.0	2.025
STA AV P	0.31	0.26	0.55	1.48	2.54	3.32	1.50	1.14	1.18	0.66	0.38	0.29	13.59
Q	0.058	0.062	0.429	0.248	0.731	0.617	0.088	0.059	0.037	0.060	0.008	0.006	2.404

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 94%; fair - 6%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.12-4. Precipitation from rain gage W-12A. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 15 yr (1958-72) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1972 DAILY PRECIPITATIONS (inches)													NEWELL, SOUTHER DAKOTA WATERSHED W-12	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.01S	0.0	0.0	0.10S	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.07S	0.08	0.0	0.30	0.45	0.0	0.0	0.0	0.05S		
3	0.0	0.01S	0.04S	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.06S		
4	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09S		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.68S	0.0	0.02S		
6	0.0	0.0	0.02S	0.09S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.01S		
8	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04S		
9	0.0	0.01S	0.0	0.0	0.10	1.62	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.92	0.19	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.06S	0.0	0.06S	0.34	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.01S	0.0	0.07S	0.0	0.0	0.16	0.04	0.0	0.0	0.0	0.04S	0.0		
13	0.08S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08S	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.20S	0.0	0.56	0.0	0.63	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.08	0.42	0.0	0.06	0.0	0.0	0.0	0.0		
20	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0		
21	0.0	0.02S	0.0	0.0	0.0	0.10	0.07	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.06S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S		
23	0.09S	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.03S		
24	0.16S	0.0	0.08S	0.0	0.0	0.58	0.10	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.90	0.45	0.12	0.0	0.12	0.0	0.0	0.0		
26	0.0	0.0	0.02S	0.35	0.0	0.07	0.15	0.0	0.0	0.0	0.0	0.0		
27	0.10S	0.02S	0.0	0.21	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.04S	0.0	0.13	0.02	0.0	0.0	0.0	0.0	0.10S	0.0	0.03S	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.06	0.0	0.0	0.0	0.0		
TOTAL	0.55	0.11	0.29	1.45	2.76	4.81	1.16	2.18	0.18	0.78	0.12	0.38		
STA AV	0.31	0.26	0.55	1.48	2.54	3.32	1.50	1.14	1.18	0.66	0.38	0.29		

NOTES: Precipitation from rain gage W-12A. STA AV based on 15 yr (1958-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH DAKOTA WATERSHED #12						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.771	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.318	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	1.713	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	1.668	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.189	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.079	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.473	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.503	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.979	0.0	0.0	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.053	0.870	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0	0.0338	0.0	0.0	0.0967	0.1213	0.0	0.0007	0.0	0.0006	0.0	0.0
INCHRS	0.0	0.259	0.0	0.0	0.793	0.962	0.0	0.006	0.0	0.005	0.0	0.0
STA AV	0.058	0.062	0.429	0.248	0.731	0.617	0.088	0.059	0.037	0.060	0.008	0.006

NOTES: STA AV based on 15 yr (1958-72) record period. To convert mean daily discharge in CFS to I8/EA1, multiply by 0.26446.

LOCATION: Meade Co., South Dakota, 26 mi. East of Newell, South Fork Sulphur Creek, Cheyenne River Watershed.

AREA: 160.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						NEWELL, SOUTH DAKOTA				WATERSHED W-13			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	0.32	0.12	0.37	1.60	2.83	4.27	0.56	1.06	0.22	0.86	0.13	0.43	13.17
Q	0.00	1.117	0.335	0.0	0.480	0.087	0.0	0.0	0.0	0.019	0.0	0.0	2.038
STA AV P	0.27	0.26	0.44	1.32	2.46	3.23	1.46	1.02	0.92	0.62	0.34	0.30	12.65
Q	0.0	0.187	0.301	0.080	0.308	0.254	0.001	0.0	0.002	0.003	0.001	0.0	1.138

NOTES: Watershed conditions: 100% rangeland; Condition classes: excellent - 8%; good - 67%; fair - 25%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub 945, p. 65.13-4. Thiessen weighted precipitation from gages W-13B and W-13C. Precipitation and runoff records began January 1956. Precipitation and runoff STA AV based on 15 yr (1958-72) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1972 DAILY PRECIPITATION (inches)					NEWELL, SOUTH DAKOTA WATERSHED W-13							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.50S	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.06S	0.0	0.07	0.17	0.0	0.0	0.0	0.02S
3	0.0	0.0	0.08S	0.10S	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.08S
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10S
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.76S	0.0	0.0
6	0.0	0.0	0.02S	0.06S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.02S	0.0	0.07S	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.02S
8	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S
9	0.0	0.01S	0.0	0.0	0.10	2.08	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.90	0.28	0.0	0.0	0.0	0.0	0.0	0.0
11	0.05S	0.0	0.08S	0.23	0.42	0.0	0.05	0.0	0.0	0.0	0.0	0.0
12	0.01S	0.0	0.05S	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.06S	0.0
13	0.08S	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.07S	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0
15	0.0	0.01S	0.0	0.0	0.0	0.10	0.09	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.03S	0.0	0.30	0.0	0.19	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.09S	0.11	0.35	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.21S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.01S	0.07S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.10S	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.03S
23	0.08S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07S
24	0.02S	0.0	0.10S	0.0	0.0	0.08	0.32	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.47	0.66	0.0	0.0	0.12	0.0	0.0	0.0
26	0.0	0.0	0.04S	0.41	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
27	0.11S	0.0	0.0	0.13	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10S	0.0	0.03S
30	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05S
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0
TOTAL	0.32	0.12	0.37	1.60	2.83	4.27	0.96	1.06	0.22	0.86	0.13	0.43
STA AV	0.27	0.26	0.44	1.32	2.46	3.23	1.46	1.02	0.92	0.62	0.34	0.30

NOTES: Thiessen weighted precipitation from gages W-13B and W-13C. STA AV based on 15 yr (1958-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)												NEWELL, SOUTH DAKOTA WATERSHED W-13											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.094	0.0	0.497	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
2	0.0	0.0	0.0	0.0	0.410	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.128	0.0	0.0											
6	0.0	0.0	1.560	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
9	0.0	0.0	0.134	0.0	0.0	0.215	0.0	0.0	0.0	0.0	0.0	0.0											
10	0.0	0.0	0.188	0.0	0.598	0.370	0.0	0.0	0.0	0.0	0.0	0.0											
11	0.0	0.0	0.108	0.0	1.721	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
12	0.0	0.0	0.087	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
13	0.0	0.0	0.054	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
14	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
20	0.0	3.623	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
27	0.0	0.760	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
28	0.0	2.884	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
29	0.0	0.242	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
MEAN	0.0	0.2589	0.0726	0.0	0.1054	0.0195	0.0	0.0	0.0	0.0041	0.0	0.0											
INCHES	0.0	1.117	0.335	0.0	0.480	0.087	0.0	0.0	0.0	0.019	0.0	0.0											
STA AV	0.0	0.187	0.301	0.080	0.308	0.254	0.001	0.0	0.002	0.003	0.001	0.0											

NOTES: STA AV based on 15 yr (1958-72) record period. To convert mean daily discharge in CFS to IN/EAY, multiply by 0.14876.

LOCATION: Butte Co., South Dakota, 16 mi. SE of Newell, Belle Fourche River Watershed.

AREA: 35.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												NEWELL, SOUTH DAKOTA WATERSHED W-14	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	0.42	0.43	0.48	1.76	3.61	3.61	1.83	1.80	0.11	0.81	0.10	0.97	15.93
Q	0.0	0.031	0.706	0.004	0.325	0.201	0.0	0.0	0.0	0.003	0.0	0.0	1.270
STA AV P	0.46	0.36	0.69	1.86	2.46	3.06	1.81	0.99	1.15	0.69	0.45	0.46	14.44
Q	0.062	0.045	0.342	0.178	0.238	0.283	0.126	0.014	0.007	0.009	0.007	0.0	1.309

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 58%; fair - 46%; Degree of grazing: moderate. For map of watersheds see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.14-4. Precipitation from rain gage W-14A. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 15 yr (1958-72) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1972 DAILY PRECIPITATION (inches)												NEWELL, SOUTH DAKOTA WATERSHED W-14	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.035	0.0	0.0	0.305	0.0	0.03	0.20	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.155	0.02	0.0	0.37	0.45	0.0	0.0	0.0	0.0	0.0
3	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.115
4	0.0	0.065	0.105	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.305
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.715	0.0	0.0	0.155
6	0.0	0.0	0.0	0.175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.055
8	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.165
9	0.0	0.055	0.0	0.0	0.30	1.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.88	0.44	0.0	0.0	0.01	0.0	0.0	0.0	0.0
11	0.115	0.0	0.125	0.14	0.22	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
12	0.075	0.0	0.065	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.045	0.0	0.0
13	0.075	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.065	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.015	0.0	0.0	0.0
15	0.0	0.075	0.025	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.11	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.055	0.0	0.26	0.0	0.55	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.255	0.10	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
21	0.035	0.0	0.0	0.0	0.05	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.175	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015
23	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015
24	0.0	0.0	0.185	0.0	0.0	0.30	0.28	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	1.36	0.20	0.35	0.0	0.10	0.0	0.0	0.0	0.0
26	0.125	0.0	0.045	0.48	0.0	0.0	0.06	0.0	0.0	0.01	0.0	0.0	0.0
27	0.025	0.045	0.0	0.20	0.04	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.055	0.0	0.0	0.035
30	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.0	0.03	0.0	0.0	0.085
31	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.08	0.0	0.0	0.0	0.0	0.075
TOTAL	0.42	0.43	0.48	1.76	3.61	3.61	1.83	1.80	0.11	0.81	0.10	0.97	
STA AV	0.46	0.36	0.69	1.86	2.46	3.06	1.81	0.99	1.15	0.69	0.45	0.46	

NOTES: Precipitation from rain gage W-14A. STA AV based on 15 yr (1958-72) record period.

1972		NEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH DAKOTA			WATERSHED W-14		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.134	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	1.038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.251	0.201	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.046	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.074	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0016	0.0335	0.0002	0.0154	0.0099	0.0	0.0	0.0	0.0001	0.0	0.0
INCHES	0.0	0.031	0.706	0.004	0.325	0.201	0.0	0.0	0.0	0.003	0.0	0.0
STA AV	0.062	0.045	0.342	0.178	0.238	0.283	0.126	0.014	0.007	0.009	0.007	0.0

NOTES: STA AV based on 15 yr (1958-72) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.68005.

LOCATION: Butte Co., South Dakota, 16 mi. SE of Newell, Belle Fourche River Watershed.

AREA: 115.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						NEWELL, SOUTH DAKOTA WATERSHED W-15							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972	P 0.35	0.30	0.41	1.56	3.79	3.70	2.04	1.90	0.12	0.90	0.10	0.55	15.72
	Q 0.0	0.0	1.124	0.004	0.418	0.184	0.0	0.0	0.0	0.0	0.0	0.0	1.730
STA AV	P 0.42	0.31	0.63	1.80	2.55	3.07	1.88	0.98	1.13	0.69	0.42	0.37	14.25
	Q 0.051	0.018	0.270	0.210	0.314	0.243	0.134	0.006	0.007	0.011	0.008	0.0	1.273

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 81%; fair - 59%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub 945, p. 65.15-4. Precipitation from rain gage W-15A. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 15 yr (1958-72) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1972 DAILY PRECIPITATION (inches)													NEWELL, SOUTH DAKOTA WATERSHED W-15	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.065	0.0	0.0	0.305	0.0	0.10	0.19	0.0	0.0	0.0	0.0		0.0
2	0.0	0.0	0.0	0.075	0.02	0.0	0.32	0.45	0.0	0.0	0.0	0.0		0.0
3	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0		0.085
4	0.0	0.035	0.095	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0		0.185
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.805	0.0	0.0		0.055
6	0.0	0.0	0.0	0.155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
7	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.015
8	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.085
9	0.0	0.065	0.0	0.0	0.30	1.96	0.0	0.0	0.0	0.0	0.0	0.0		0.0
10	0.0	0.0	0.0	0.0	0.88	0.05	0.0	0.0	0.01	0.0	0.0	0.0		0.0
11	0.085	0.0	0.125	0.16	0.22	0.0	0.14	0.0	0.0	0.0	0.0	0.0		0.0
12	0.025	0.0	0.065	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.085	0.0		0.0
13	0.085	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.065	0.0		0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.015	0.0	0.0		0.0
15	0.0	0.055	0.025	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0		0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.20	0.0	0.0	0.0	0.0		0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
18	0.0	0.0	0.0	0.105	0.0	0.31	0.0	0.57	0.0	0.0	0.0	0.0		0.0
19	0.0	0.0	0.0	0.105	0.10	0.46	0.0	0.0	0.0	0.0	0.0	0.0		0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0		0.0
21	0.035	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.0	0.0	0.0	0.0		0.0
22	0.0	0.0	0.0	0.055	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.015		0.0
23	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.015	0.0		0.0
24	0.0	0.0	0.105	0.0	0.0	0.30	0.16	0.0	0.0	0.0	0.0	0.0		0.0
25	0.0	0.0	0.0	0.0	1.58	0.23	0.40	0.0	0.11	0.0	0.0	0.0		0.0
26	0.125	0.0	0.025	0.44	0.0	0.0	0.06	0.0	0.0	0.01	0.0	0.0		0.0
27	0.025	0.025	0.0	0.28	0.03	0.0	0.50	0.0	0.0	0.0	0.0	0.0		0.0
28	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
29	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.02	0.0	0.055	0.0	0.035		0.0
30	0.0	0.0	0.18	0.0	0.0	0.0	0.08	0.0	0.035	0.0	0.065	0.0		0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.045		0.0
TOTAL	0.35	0.30	0.41	1.56	3.79	3.70	2.04	1.90	0.12	0.90	0.10	0.55		15.72
STA AV	0.42	0.31	0.63	1.80	2.55	3.07	1.88	0.98	1.13	0.69	0.42	0.37		14.25

NOTES: Precipitation from rain gage W-15A. STA AV based on 15 yr (1958-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH DAKOTA				WATERSHED W-15			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.531	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	5.431	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.116	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.981	0.652	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.338	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.048	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.169	0.048	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0			0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31			0.0		0.0		0.0			0.0		0.0	
MEAN	0.0	0.0	0.1752	0.0006	0.0651	0.0296	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.0	0.0	1.124	0.004	0.418	0.184	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.051	0.018	0.270	0.210	0.314	0.243	0.134	0.006	0.007	0.011	0.008	0.0	

NOTES: STA AV based on 15 yr (1958-72) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.20697.

LOCATION: Caledonia County, Vermont, 5 mi. NW of St. Johnsbury; Sleepers River, Connecticut River Basin.
 Lat. 44 deg. 27 min. 00 sec. N.; Long. 72 deg. 04 min. 06 sec. W.

AREA: 10611.20 acres 16.58 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NOOTE DANVILLE, VERMONT WATERSHED W-1													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1972	P	2.68	3.47	5.77	3.07	4.25	7.51	7.23	2.74	1.46	4.91	6.87	6.94	56.90													
	Q	0.766	0.453	1.584	4.439	6.593	1.585	1.612	0.633	0.210	0.681	1.782	1.358	21.697													
STA AV	P	2.76	3.46	3.58	3.66	3.85	4.28	4.06	4.87	3.04	4.12	4.81	4.20	46.69													
	Q	0.839	0.858	1.506	6.062	3.199	1.012	0.605	0.544	0.405	1.112	1.488	1.306	18.935													
ANNUAL RUNOFF DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1972		5-4	0.058	5-4	0.057	5-4	0.111	5-4	0.281	5-4	0.456	5-3	0.764	5-2	1.483	4-30	4.172										
RUNOFFS FOR PERIOD OF RECORD																											
		10-24	0.100	10-24	0.100	10-24	0.200	10-24	0.500	10-24	0.780	10-24	1.150	5-2	1.483	4-30	4.172										
		1959		1959		1959		1959		1959		1959		1972		1972											

NOTES: Watershed conditions: Predominately hardwood forest, 64%; cultivated-16% in long hay rotations and about 1% in row crops, total 17%; pasture, largely bluegrass 15%; idle land in grass and woody plants, 31; and boroetics and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 671-4. Precipitation records began January 1, 1959. Runoff records began October 1959. Part year values not included in STA AV. For long-time precipitation records, see National Weather Service records at St. Johnsbury, Vt.

1972 DAILY AIR TEMPERATURE (degrees F)												NOETE DANVILLE, VERMONT WATERSHED W-1											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	16-16	20-4	46-21	48-25	69-34	70-56	76-57	76-56	82-54	52-30	40-25	30-22											
2	32-11	24-1	36-28	42-23	42-39	60-46	83-56	70-52	76-52	54-28	44-34	20-2											
3	32-22	26-11	28-5	34-28	43-39	76-44	70-54	70-56	70-56	64-36	48-30	30-8											
4	26-13	34-10	30-8	37-22	50-40	68-52	66-46	64-42	62-56	71-42	32-26	16-2											
5	23-16	10-0	30-16	36-18	44-33	72-47	64-42	72-39	68-44	66-44	32-27	26-16											
6	12-16	16-2	16-3	34-14	61-30	70-46	72-40	72-42	67-40	66-40	36-30	41-26											
7	23-9	10-8	30-11	22-9	54-30	61-44	74-48	69-58	75-36	57-52	32-27	29-6											
8	18-11	10-8	35-14	27-48	60-26	57-43	76-44	72-58	62-50	58-38	44-32	28-8											
9	33-19	0-12	12-16	16-16	42-34	52-51	78-46	74-54	68-48	42-40	32-33	32-24											
10	44-16	26-8	22-17	40-20	54-32	61-42	68-52	60-49	62-44	44-26	36-32	31-21											
11	38-16	23-8	24-11	41-20	54-31	56-37	78-56	71-42	72-38	57-24	36-32	21-4											
12	36-18	22-8	34-23	44-21	53-32	66-39	88-53	66-52	71-42	51-37	37-34	16-4											
13	45-25	37-17	31-8	34-22	74-32	74-42	83-62	72-50	62-39	40-23	42-33	40-14											
14	31-4	39-32	29-2	36-28	68-44	79-58	81-66	63-47	67-44	45-23	34-26	26-9											
15	16-4	46-25	30-21	35-27	60-52	84-64	88-68	68-44	65-36	37-26	26-16	6											
16	-3-22	32-2	41-17	44-32	67-54	74-56	81-66	70-40	72-42	45-23	22-8	23-6											
17	12-22	30-4	40-33	52-32	70-52	72-50	88-62	63-50	78-56	50-29	30-4	6-6											
18	34-4	30-3	34-20	46-32	72-45	74-50	87-60	65-58	77-50	36-24	40-18	24-9											
19	43-21	22-9	24-4	51-33	76-49	68-56	82-64	74-52	65-44	36-17	36-12	26-14											
20	26-15	10-6	30-4	42-32	66-50	76-60	80-60	73-46	68-36	34-16	34-26	26-16											
21	27-6	12-12	35-18	38-28	80-54	76-64	82-66	80-42	68-34	42-14	26-15	22-14											
22	27-7	19-12	36-27	48-24	74-46	76-62	76-61	84-52	60-40	38-34	22-3	32-23											
23	41-27	3-27	39-31	40-30	82-38	68-59	78-60	81-56	60-33	47-34	20-3	32-28											
24	31-16	25-4	32-28	42-20	75-48	78-60	82-62	63-36	34-50	32-18	32-30												
25	38-2	28-3	27-19	37-22	68-40	63-53	78-56	84-62	72-54	36-33	34-30	34-30											
26	5-5	27-12	23-16	42-19	72-32	68-51	70-56	80-58	72-58	48-28	46-29	31-29											
27	10-6	29-0	24-11	38-20	80-36	72-50	72-54	76-57	68-40	58-25	37-34	30-12											
28	19-1	36-24	34-16	50-30	82-45	78-52	74-54	76-64	62-32	50-29	38-31	24-14											
29	20-5	34-21	45-31	54-36	82-46	82-53	74-50	73-50	55-39	50-28	32-12	13-4											
30	22-4	32-28	35-25	66-28	78-46	70-56	76-46	72-48	67-38	30-22	24-8	16-8											
31	16-1		42-28		68-60		76-46	86-46		36-21		32-21											
AV.	26-1	24-2	31-13	41-24	66-41	76-51	77-55	75-51	67-44	48-29	34-23	26-11											
MEAN	13.6	13.2	22.1	32.8	53.3	60.4	66.2	62.0	55.6	38.8	28.6	18.7											
STA AV	22-3	23-3	34-15	46-27	60-37	71-46	74-52	72-49	64-42	54-35	38-23	24-9											

NOTES: Temperature data is from E-12 station. Readings taken daily from hygrothermograph charts. STA AV based on 1960-72 record period.

1972 DAILY PRECIPITATION (inches)												NORTH DANVILLE, VERMONT WATERSHED W-1											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.03	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.87											
2	0.35	0.0	0.71	0.07	1.00	0.23	0.0	0.53	0.0	0.0	0.31	0.08											
3	0.09	0.46	0.65	0.16	0.95	0.0	1.00	0.42	0.0	0.0	0.57	0.06											
4	0.11	0.74	0.0	0.22	1.15	0.60	0.0	0.01	0.0	0.0	0.18	0.35											
5	0.10	0.06	0.36	0.02	0.20	0.0	0.0	0.0	0.0	0.0	0.30	0.15											
6	0.0	0.0	0.09	0.30	0.0	0.58	0.0	0.0	0.0	0.0	0.04	0.75											
7	0.19	0.0	0.10	0.01	0.04	0.10	0.0	0.43	0.0	2.23	0.0	0.0											
8	0.07	0.05	0.30	0.0	0.05	0.0	0.0	0.14	0.24	0.22	1.30	0.44											
9	0.0	0.0	0.08	0.0	0.0	0.49	0.0	0.02	0.07	0.14	0.58	0.05											
10	0.0	0.0	0.0	0.0	0.0	0.16	1.66	0.08	0.0	0.0	0.0	0.15											
11	0.05	0.0	0.0	0.05	0.11	0.0	0.02	0.0	0.0	0.0	0.0	0.03											
12	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.20	0.03	0.35											
13	0.14	0.16	0.0	0.05	0.0	0.0	0.05	0.0	0.13	0.0	0.05	0.24											
14	0.06	0.06	0.13	0.09	0.20	0.0	0.0	0.05	0.13	0.29	0.34	0.0											
15	0.06	0.0	0.52	0.34	0.28	1.31	0.0	0.0	0.0	0.16	0.15	0.61											
16	0.0	0.0	0.01	0.12	0.06	0.35	0.64	0.0	0.0	0.0	0.02	0.64											
17	0.14	0.0	0.87	0.05	0.0	0.0	0.44	0.0	0.0	0.15	0.0	0.02											
18	0.0	0.0	0.48	0.05	0.0	0.0	0.0	0.40	0.0	0.0	0.04	0.0											
19	0.06	0.80	0.0	0.22	0.0	0.0	0.11	0.0	0.05	0.0	0.05	0.15											
20	0.26	0.14	0.0	0.17	0.06	0.0	0.0	0.0	0.0	0.0	0.89	0.04											
21	0.07	0.16	0.0	0.0	0.0	0.0	1.96	0.0	0.0	0.0	0.08	0.22											
22	0.0	0.19	0.46	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.33											
23	0.0	0.53	0.31	0.0	0.0	0.19	0.16	0.05	0.0	0.43	0.0	0.02											
24	0.11	0.15	0.10	0.04	0.0	0.20	0.34	0.0	0.0	0.15	0.09	0.0											
25	0.36	0.0	0.08	0.0	0.0	0.0	0.54	0.09	0.0	0.01	0.0	0.02											
26	0.0	0.48	0.09	0.0	0.0	0.23	0.10	0.0	0.05	0.0	1.21	0.12											
27	0.06	0.0	0.03	0.0	0.0	0.0	0.11	0.36	0.04	0.0	0.03	0.12											
28	0.14	0.0	0.0	0.0	0.0	2.16	0.0	0.07	0.0	0.41	0.40	0.07											
29	0.05	0.02	0.0	0.0	0.0	0.07	0.0	0.29	0.06	0.06	0.06	0.06											
30	0.06	0.0	0.11	0.0	0.0	0.24	0.0	0.06	0.46	0.0	0.19	0.61											
31	0.05	0.04	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.41											
TOTAL	2.68	3.47	5.77	3.07	4.25	7.51	7.23	2.74	1.46	4.51	6.87	6.98											
STA AV	2.76	3.46	3.58	3.66	3.85	4.28	4.06	4.87	3.04	4.12	4.81	4.20											

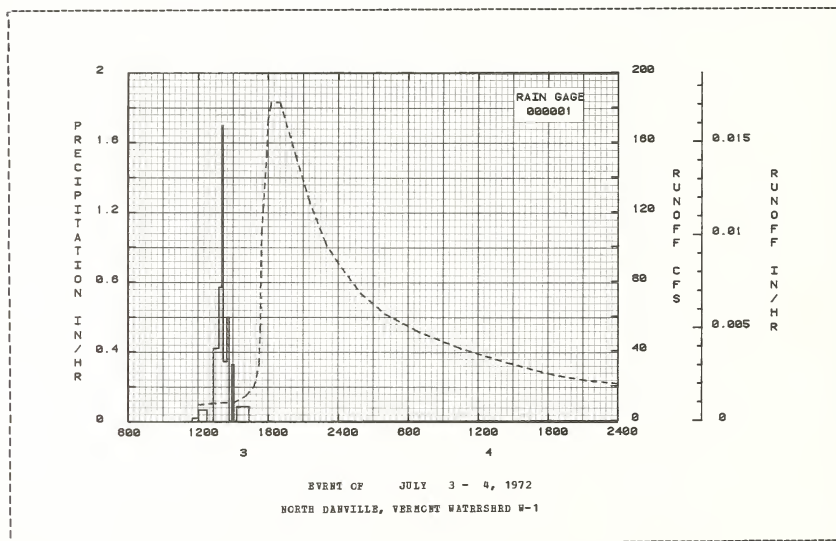
NOTES: Daily precipitation values from rain gage R-01. All precipitation is rain except for the months of January, February, and December during which all precipitation is snow or rain on snow. STA AV based on 14 yr (1959-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)												NORTH DANVILLE, VERMONT WATERSHED W-1											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	9.72	7.26	7.48	32.51	191.60	43.48	18.79	8.54	4.03	6.41	8.79	20.20											
2	9.72	7.06	15.83	37.88	256.54	32.49	12.91	7.62	3.46	4.09	11.70	15.97											
3	9.72	7.06	25.01	35.34	381.79	22.52	46.41	26.42	3.65	3.48	25.22	19.39											
4	9.72	7.79	30.54	30.87	322.37	28.02	42.48	16.43	3.39	3.30	21.48	15.14											
5	9.72	7.07	17.74	31.91	229.74	36.49	17.78	10.03	3.28	3.02	15.15	17.44											
6	9.72	7.06	13.33	28.42	168.38	29.20	12.92	8.33	2.71	3.02	16.62	31.99											
7	9.72	7.06	12.48	23.13	196.98	48.74	10.46	10.39	2.54	28.70	17.38	59.76											
8	9.30	6.50	11.74	23.41	140.72	27.46	10.19	17.97	2.94	34.06	44.90	25.20											
9	8.66	6.29	10.61	23.16	116.49	48.00	9.36	11.62	4.49	13.75	125.00	24.94											
10	8.66	5.76	9.95	25.25	94.64	36.19	39.37	9.11	3.43	9.37	42.32	22.80											
11	9.21	5.66	9.72	27.43	83.59	24.88	48.67	8.58	2.92	7.27	27.31	18.61											
12	10.46	5.66	9.72	34.85	78.41	18.33	17.70	7.06	2.76	7.55	21.79	16.97											
13	11.24	5.66	8.94	35.17	74.08	15.02	11.91	6.90	2.69	7.95	20.60	23.85											
14	23.44	6.61	8.66	36.18	73.36	13.25	10.89	6.49	3.86	6.74	19.54	19.99											
15	17.95	8.07	8.66	38.86	87.28	12.73	9.85	6.25	3.74	9.07	18.45	16.66											
16	13.59	10.38	9.05	61.30	75.28	41.15	8.50	5.02	3.23	8.48	14.67	17.17											
17	10.29	9.02	20.92	87.83	61.47	19.26	30.90	4.93	2.88	8.43	10.93	16.85											
18	9.72	8.70	79.49	103.39	50.05	13.95	12.06	8.03	2.67	7.51	14.60	15.07											
19	10.15	8.11	48.90	131.43	42.05	12.13	10.06	10.06	2.67	6.33	13.04	14.71											
20	10.61	8.01	25.10	120.27	37.17	12.27	9.95	6.24	2.67	5.23	28.20	14.71											
21	10.17	7.06	21.12	96.53	36.16	11.47	112.15	4.85	2.41	5.29	25.43	14.71											
22	9.72	7.06	22.92	84.08	36.84	10.24	56.02	4.41	2.30	5.66	13.56	15.34											
23	9.79	6.55	55.11	96.81	24.89	9.11	20.77	4.19	2.16	11.22	12.38	15.67											
24	10.18	6.48	43.32	95.93	21.70	11.02	21.85	4.00	2.06	14.46	15.17	15.90											
25	15.45	6.07	29.11	95.52	19.16	12.46	26.59	17.23	2.31	10.28	14.76	16.47											
26	16.56	5.92	24.21	82.60	17.22	14.55	21.92	14.37	2.51	8.32	56.90	17.17											
27	12.35	5.77	22.75	69.48	16.20	11.56	18.93	7.51	2.51	7.23	56.21	17.17											
28	10.46	5.82	22.68	85.01	14.73	39.11	15.90	12.30	2.22	7.13	32.35	17.17											
29	9.48	6.13	25.46	132.52	13.09	34.04	13.02	7.22	2.26	23.58	27.44	14.86											
30	8.66	6.00	29.72	158.22	11.75	17.27	11.09	5.42	8.91	16.04	18.57	15.13											
31	7.80	6.00	25.54	136.62	13.62	9.25	4.88	4.88	8.91	10.44	18.53	15.13											
MEAN	11.617	6.964	22.773	65.972	94.816	23.558	23.181	9.110	3.123	6.788	26.482	19.533											
INCHES	0.766	0.453	1.584	4.439	6.593	1.585	1.612	0.633	0.210	0.681	1.782	1.358											
STA AV	0.839	0.858	1.506	6.062	3.199	1.012	0.605	0.544	0.405	1.112	1.488	1.306											

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.002233. STA AV based on 13 yr (1960-72) record period.

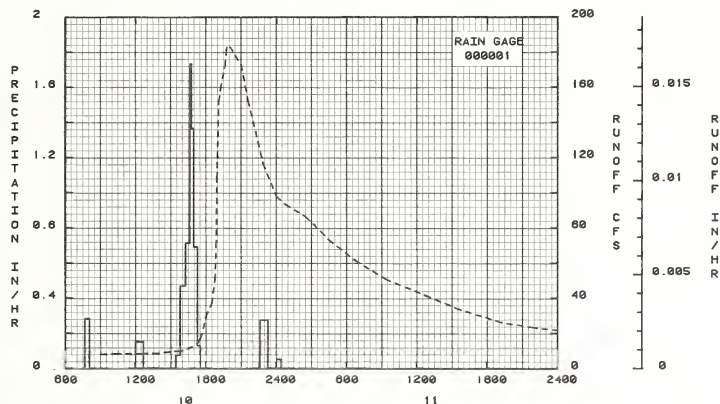
1972 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 3 - 4, 1972										
RG 000001			RG 000001							
7- 3	0.0	0.011	7- 3	1129	0.0	0.0	7- 3	1200	9.719	0.0
				1200	0.0193	0.01		1330	10.464	0.0014
				1244	0.0682	0.06		1359	10.850	0.0019
				1316	0.0	0.06		1500	10.850	0.0029
				1346	0.4200	0.27		1605	14.710	0.0042
WATERSHED CONDITIONS:				1400	0.7714	0.45		1645	19.864	0.0053
Forest land, 64%; hay, 16%;				1406	1.7000	0.62		1700	25.988	0.0058
pastured land, 15%; idle				1427	0.3429	0.74		1712	33.139	0.0064
land with dense grass and				1438	0.6000	0.85		1719	55.870	0.0069
brush growth, 3%; seeded to				1452	0.0	0.85		1721	86.171	0.0071
corn, 1%; and hoesites, 1%.				1503	0.3273	0.91		1725	108.297	0.0077
				1517	0.0	0.91		1735	124.786	0.0095
				1620	0.0857	1.00		1750	152.237	0.0127
								1757	172.409	0.0145
								1814	183.073	0.0192
								1900	183.073	0.0324
								2020	152.237	0.0533
								2134	124.786	0.0693
								2259	100.579	0.0842
								2400	50.352	0.0933
							7- 4	155	73.093	0.1079
								359	61.300	0.1209
								658	50.743	0.1365
								1030	41.373	0.1517
								1428	33.139	0.1655
								1829	25.988	0.1766
								2115	22.501	0.1829
								2400	21.010	0.1885

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000935. For 30-day antecedent rainfall and runoff, see tables of daily values.



1972 SELECTED RUNOFF EVENT				NORTH DANVILLE, VERMONT WATERSHED W-1							
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 10 - 11, 1972											
7-10	EG 000001	0.007	7-10	700	0.0	0.0	7-10	900	7.999	0.0	
	0.0			803	0.2870	0.11		1016	8.326	0.0010	
				1200	0.0	0.11		1230	8.326	0.0027	
				1239	0.1539	0.21		1300	8.662	0.0031	
				1524	0.0	0.21		1400	8.662	0.0039	
WATERSHED CONDITIONS:				1548	0.0750	0.24		1600	10.464	0.0057	
Forest land, 64%; hay, 16%;				1616	0.4714	0.46		1651	12.478	0.0066	
pastured land, 15%; idle				1637	0.7143	0.71		1722	14.710	0.0073	
land with dense grass and				1646	1.7332	0.97		1741	19.864	0.0078	
brush growth, 3%; seeded to				1657	1.3636	1.22		1800	29.432	0.0085	
corn, 1%; and homesites, 1%.				1717	0.6900	1.45		1831	37.117	0.0101	
				1731	0.1286	1.48		1847	50.743	0.0112	
				2237	0.0	1.48		1853	73.093	0.0118	
				2316	0.2769	1.66		1856	108.297	0.0122	
				2400	0.0	1.66		1905	152.237	0.0141	
			7-11	23	0.0521	1.68		1919	162.132	0.0175	
								1937	172.409	0.0221	
								1946	183.073	0.0246	
								2002	183.073	0.0291	
								2100	172.409	0.0452	
								2135	152.237	0.0540	
								2252	116.364	0.0701	
								2400	97.589	0.0815	
							7-11	45	93.206	0.0882	
								230	86.171	0.1029	
								430	73.093	0.1178	
								644	61.300	0.1318	
								920	50.743	0.1454	
								1245	41.373	0.1601	
								1545	33.139	0.1705	
								1915	25.988	0.1802	
								2214	22.801	0.1870	
								2400	21.597	0.1907	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000935. For 30-day antecedent rainfall and runoff, see tables of daily values.



EVENT OF JULY 10 - 11, 1972
NORTH DANVILLE, VERMONT WATERSHED W-1

NORTH DANVILLE, VERMONT WATERSHED W-3

LOCATION: Caledonia County, Vermont; 7.5 mi. NW of St. Johnsbury; Pope Brook, Sleepers River, Connecticut River Basin.
Lat. 44 deg. 28 min. 35 sec. N.; Long. 72 deg. 07 min. 33 sec. W.

AREA: 2067.00 acres 3.23 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-3															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1972	P	2.68	3.47	5.77	3.07	4.25	7.51	7.23	2.74	1.46	4.51	6.87	6.54	56.90															
	Q	1.017	0.725	1.521	4.280	9.232	2.212	2.377	1.245	0.540	0.961	1.816	1.743	27.668															
STA AV	P	2.76	3.46	3.58	3.66	3.85	4.28	4.06	4.87	3.04	4.12	4.81	4.20	46.69															
	Q	1.004	0.900	1.454	6.386	4.470	1.572	1.015	0.503	0.706	1.141	1.493	1.369	22.454															
ANNUAL MAXIMUM DISCHARGE (in/hr) and MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval																					
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours				12 Hours				1 Day				2 Days				8 Days					
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.						
1972		5-4	0.059	5-4	0.095	5-4	0.179	5-4	0.430	5-4	0.678	5-4	1.067	5-3	1.904	4-30	5.631												
MAXIMUMS FOR PERIOD OF RECORD																													
		5-4	0.059	5-4	0.095	5-4	0.179	5-4	0.430	5-4	0.678	4-15	1.080	5-3	1.904	4-30	5.631												
	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972												

NOTES: Watershed conditions: Forest, predominantly hardwoods, 67%; pasture of mostly bluegrass, 19%; cultivated land consisting of clover, orchard grass, and timothy hay with very small areas in row crops, 11%; and idle land in tall grasses and woody plants, 3%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 954, p. 67.3-5. Precipitation records began January 1, 1959. Runoff records began January 1, 1960. For long-time precipitation records, see National Weather Service records at St. Johnsbury, Vt.

1972 DAILY PRECIPITATION (inches)													NORTH DANVILLE, VERMONT WATERSHED W-3												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.03	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.87												
2	0.35	0.0	0.0	0.11	0.07	1.00	0.0	0.53	0.0	0.0	0.31	0.0	0.08												
3	0.09	0.46	0.65	0.16	0.95	0.0	1.00	0.42	0.0	0.0	0.57	0.06													
4	0.11	0.74	0.0	0.22	1.15	0.60	0.0	0.01	0.0	0.0	0.18	0.35													
5	0.10	0.06	0.36	0.02	0.20	0.0	0.0	0.0	0.0	0.0	0.30	0.15													
6	0.0	0.0	0.0	0.09	0.30	0.0	0.54	0.0	0.0	0.0	0.04	0.75													
7	0.19	0.0	0.10	0.01	0.04	0.10	0.0	0.43	0.0	2.23	0.0	0.0													
8	0.07	0.05	0.30	0.00	0.05	0.0	0.14	0.24	0.22	1.30	0.44	0.0													
9	0.0	0.0	0.08	0.0	0.0	0.49	0.0	0.02	0.07	0.14	0.58	0.05													
10	0.0	0.0	0.0	0.0	0.0	0.16	1.66	0.08	0.0	0.0	0.0	0.15													
11	0.05	0.0	0.0	0.0	0.05	0.11	0.0	0.02	0.0	0.0	0.0	0.03													
12	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.20	0.03	0.35													
13	0.14	0.16	0.0	0.85	0.0	0.0	0.05	0.0	0.13	0.0	0.05	0.24													
14	0.06	0.06	0.13	0.20	0.09	0.0	0.0	0.13	0.29	0.34	0.0	0.0													
15	0.06	0.0	0.52	0.34	0.28	1.31	0.0	0.0	0.0	0.16	0.15	0.61													
16	0.0	0.0	0.01	0.12	0.06	0.35	0.64	0.0	0.0	0.0	0.02	0.64													
17	0.14	0.0	0.87	0.05	0.0	0.0	0.44	0.0	0.0	0.15	0.0	0.02													
18	0.0	0.0	0.48	0.05	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.04													
19	0.06	0.80	0.0	0.22	0.0	0.0	0.11	0.0	0.05	0.0	0.05	0.15													
20	0.26	0.14	0.0	0.17	0.06	0.0	0.0	0.0	0.0	0.89	0.04	0.0													
21	0.07	0.16	0.0	0.0	0.0	0.0	1.96	0.0	0.0	0.0	0.08	0.22													
22	0.0	0.19	0.46	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.33													
23	0.0	0.53	0.31	0.19	0.0	0.19	0.16	0.05	0.43	0.0	0.02	0.0													
24	0.11	0.15	0.10	0.04	0.0	0.20	0.34	0.0	0.0	0.15	0.09	0.0													
25	0.36	0.0	0.08	0.0	0.0	0.0	0.54	0.09	0.0	0.01	0.0	0.02													
26	0.0	0.48	0.09	0.0	0.0	0.23	0.10	0.0	0.05	0.0	1.21	0.12													
27	0.06	0.0	0.03	0.0	0.0	0.0	0.11	0.36	0.04	0.0	0.03	0.12													
28	0.14	0.0	0.0	0.0	0.0	2.16	0.0	0.07	0.0	0.41	0.40	0.07													
29	0.05	0.02	0.0	0.0	0.0	0.0	0.07	0.25	0.52	0.06	0.0	0.0													
30	0.06	0.11	0.0	0.0	0.0	0.24	0.0	0.06	0.46	0.0	0.19	0.61													
31	0.05	0.0	0.04	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.41													
TOTAL	2.68	3.47	5.77	3.07	4.25	7.51	7.23	2.74	1.46	4.51	6.87	6.54													
STA AV	2.76	3.46	3.58	3.66	3.85	4.28	4.06	4.87	3.04	4.12	4.81	4.20													

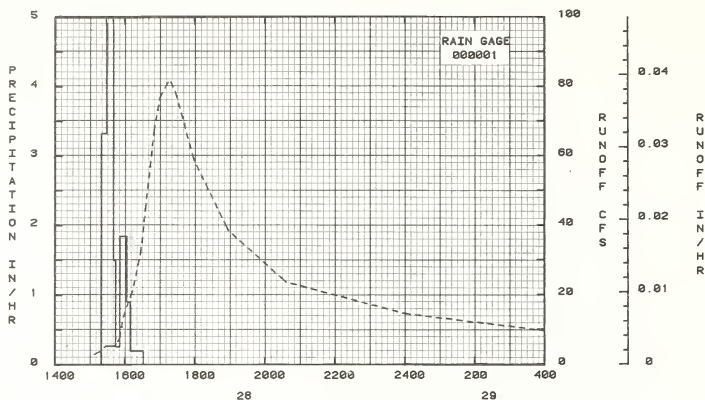
NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage P-01. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 14 yr (1959-72) record period.

1972		MEAN DAILY DISCHARGE (cfs)					NORTH DANVILLE, VERMONT WATERSHED W-3						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	2.693	2.206	2.356	5.486	51.352	12.105	5.063	3.817	1.932E	1.997	2.230	4.847	
2	2.794	2.179	3.708	6.030	59.159	7.674	3.863	3.500	1.701	1.588	2.972	4.252	
3	2.777	2.220	3.908	5.793	78.262	5.720	12.325	9.100	1.669	1.555	6.033	4.817	
4	2.797	2.435	3.844	5.051	84.948	7.943	7.703	5.631	1.588	1.501	3.855	4.049	
5	2.785	2.215	2.570	5.091	63.445	7.110	4.696	3.978	1.601	1.469	3.242	4.338	
6	2.638	2.179	2.761	5.160	49.374	7.644	3.889	3.524	1.488	1.166	3.494	10.060	
7	2.638	2.179	2.761	4.688	57.334	8.430	3.732	4.651	1.441	10.061	3.307	8.461	
8	2.638	2.179	2.761	4.953	47.000	8.320	3.728	4.695	1.487	9.672	3.572	8.461	
9	2.638	2.113	2.593	4.651	33.205	10.056	3.271	4.072	1.979	3.251	20.700	6.273	
10	2.638	2.073	2.518	4.964	26.654	7.558	13.474	3.672	1.548	2.420	6.626	5.340	
11	2.852	2.073	2.431	5.332	23.675	6.560	10.525	3.270	1.482	2.042	4.999	4.431	
12	2.818	2.073	2.402	6.371	21.478	4.831	4.875	3.204	1.485	2.200	4.401	5.071	
13	2.963	2.073	2.402	6.625	20.660	4.383	4.028	2.992	1.561	1.172	4.431	5.336	
14	4.345E	2.353	2.475	6.205	20.306	4.079	3.905	2.982E	1.789	2.004	4.071	4.740E	
15	3.746E	2.430	2.518	6.496	23.129	5.413	3.491	2.478E	1.602	2.901	3.896	4.498	
16	3.053E	2.538	2.554	9.365	19.382	12.756	4.145	2.184E	1.414	2.302	3.537	4.700	
17	2.888	2.544	7.029	12.989	16.392	5.572	11.191	2.255E	1.400	2.487	3.738	6.245E	
18	2.769	2.222	1.866	15.153	14.191	4.566	11.191	2.255E	1.400	2.487	3.738	6.245E	
19	2.888	2.186	4.942	21.776	12.391	4.312	4.115	3.267E	1.431	1.964	3.309	4.043E	
20	2.810	2.147	4.788	17.816	11.664	4.212	3.761	2.345E	1.303	1.819	5.749	4.031	
21	2.587	2.138E	4.153	16.210	10.664	3.997	28.064	2.038E	1.253	1.716	4.504	4.031	
22	2.402	2.073	5.041	17.079	9.301	3.634	10.158	1.903E	1.318	1.957	3.430	4.031	
23	2.587	2.073	8.656	17.717	8.114	3.856	5.845	1.838E	1.295	3.463	3.740	4.031	
24	2.612	2.047	5.799	18.084	7.247	4.173	6.693	1.991E	1.281	3.229	3.460	4.071E	
25	3.619	1.969	4.848	18.769	6.412	3.948	10.265	6.433E	1.325	2.434	3.391	4.191E	
26	3.176E	1.969	4.578	16.694	6.045	4.519	7.966	3.635E	1.379	2.126	11.837	4.191E	
27	2.808E	1.969	4.383	15.223	5.749	3.651	6.286	2.781E	1.399	2.073	7.900	4.191E	
28	2.905E	1.969	4.688	20.648	5.377	3.618	5.684	2.681E	1.272	2.156	5.684	4.191E	
29	2.533	2.073	4.688	20.153	4.775	8.080	4.845	2.566E	1.350	5.404	5.143	3.827	
30	2.402	2.073	5.157	10.164	4.444	5.401	4.352	2.165E	3.466	3.104	4.554	4.021	
31	2.331		4.695		5.180		3.994	2.097E		2.457		4.868	
MEAN	2.849	2.170	4.261	12.391	25.861	6.403	6.658	3.489	1.563	2.691	5.256	4.883	
INCHES	1.017	0.725	1.521	4.280	9.232	2.212	2.377	1.245	0.540	0.961	1.816	1.743	
STA AV	1.004	0.900	1.494	6.386	4.470	1.572	1.015	0.903	0.706	1.141	1.493	1.369	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.011515. STA AV based on 13 yr (1960-72) record period.

1972	SELECTED HUNCOFF EVENT				NORTH DABVILLE, VERMONT WATERSHED #=3									
Date Mo-Day	ANTECEDENT CONDITIONS			Date Mo-Day	RAINFALL			Acc. (inches)	Date Mo-Day	HUNCOFF				
	Date Rainfall (inches)	Runoff (inches)	Time of Day		Intensity (in/hr)	Time of Day	Date (hr)			Acc. (inches)				
EVENT OF JUNE 28 - 29, 1972														
6-28	RG 000001 0.0	0.024	6-28	RG 000001			6-28							
				1519	0.0	0.0				1507	3.018	0.0		
				1528	3.3333	0.50				1518	4.031	0.0003		
				1534	5.0000	1.00				1527	5.419	0.0006		
				1540	5.0000	1.50				1543	5.419	0.0013		
				1544	1.4559	1.60				1551	7.762	0.0017		
				WATERSHED CONDITIONS:										
				67% forest land; 19% pastured	1551	0.2571	1.63			1557	13.807	0.0022		
				land; 11% hay and 3% idle	1603	1.5502	2.00			1613	21.318	0.0044		
				land with dense grass and brush growth.	1609	0.8599	2.09			1627	32.231	0.0074		
				1631	0.1909	2.16				1635	44.822	0.0059		
				1644	58.565	0.0136								
				1651	68.836	0.0172								
				1700	77.038	0.0225								
				1714	81.382	0.0313								
				1719	81.382	0.0347								
				1727	78.109	0.0398								
				1759	58.565	0.0572								
				1857	38.513	0.0798								
				2036	23.650	0.1044								
				2400	18.500	0.1355								
				6-29	601	9.536	0.1702							

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0004758. For 30-day antecedent rainfall and runoff, see tables of daily amounts.



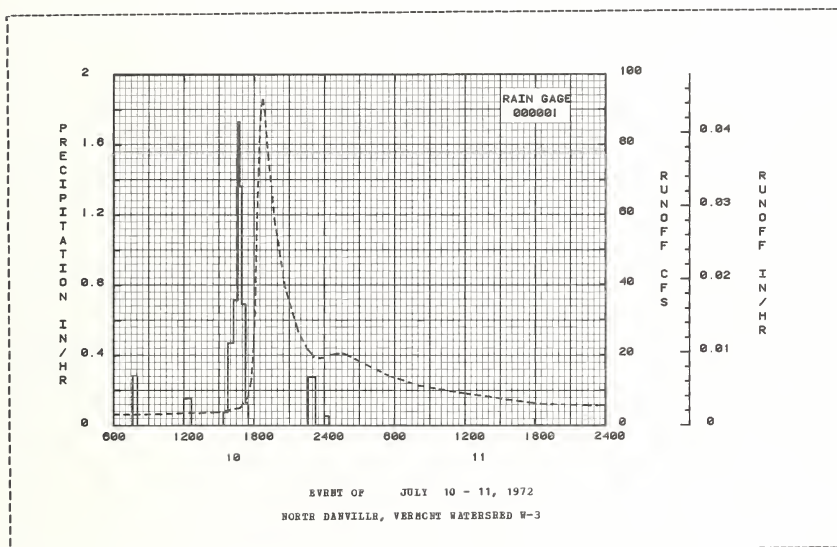
EVENT OF JUNE 28 - 29, 1972
NORTH DANVILLE, VERMONT WATERSHED W-3

1972 SELECTED RUNOFF EVENT						NORTH DANVILLE, VERMONT WATERSHED W-3					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 10 - 11, 1972											
RG 000001			RG 000001								
7-10	0.0	0.009	7-10	780	0.0	0.0	7-10	600	3.152	0.0	
				803	0.2870	0.11		1007	3.289	0.0064	
				1200	0.0	0.0		1200	3.575	0.0095	
				1239	0.1539	0.21		1327	3.575	0.0120	
				1524	0.0	0.21		1505	3.875	0.0149	
WATERSHED CONDITIONS:				1508	0.0750	0.24		1650	5.048	0.0186	
Forest land, 67%; 199 pastured				1616	0.4714	0.46		1731	8.245	0.0208	
land; 11%, hay and 3%, idle				1637	0.7143	0.71		1748	13.468	0.0223	
land with dense grass and				1646	1.7332	0.97		1759	22.230	0.0239	
brush growth.				1657	1.3636	1.22		1808	37.851	0.0261	
				1717	0.6900	1.45		1815	57.687	0.0288	
				1731	0.1286	1.48		1823	71.837	0.0329	
				2237	0.0	1.48		1829	82.493	0.0365	
				2316	0.2769	1.66		1833	88.211	0.0392	
				2400	0.0	1.66		1842	92.980	0.0458	
			7-11	23	0.0521	1.68		1846	92.980	0.0488	
								1856	88.211	0.0559	
								1912	77.038	0.0666	
								1945	58.565	0.0845	
								2040	39.183	0.1059	
								2147	26.665	0.1235	
								2233	21.769	0.1324	
								2307	19.558	0.1380	
								2335	19.134	0.1424	
								2400	19.134	0.1462	
							7-11	23	19.988	0.1498	
								114	20.424	0.1580	
								137	20.424	0.1618	
								215	19.558	0.1679	
								313	17.898	0.1766	

NOTES: To convert runoff in CPS to I₈/H₈, multiply by 0.0004798. For 30-day antecedent rainfall and runoff, see tables of daily values.

1972 SELECTED RUNOFF EVENT						NORTH DANVILLE, VERMONT WATERSHED W-3					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 10 - 11, 1972 (CONTINUED)											
							7-11	530	14.151	0.1942	
								804	11.244	0.2098	
								1200	9.005	0.2289	
								1801	6.210	0.2509	
								1949	5.806	0.2561	
								2246	5.610	0.2642	
								2400	5.610	0.2675	

NOTES: To convert runoff in CFS to I³/H³, multiply by 0.0004798. For 30-day antecedent rainfall and runoff, see tables of daily values.



NORTH DANVILLE, VERMONT WATERSHED W-4

LOCATION: Caledonia County, Vermont; 4.7 mi. NW of St. Johnsbury; Morrill Brook, Sleepers River, Connecticut River Basin. Lat. 44 deg. 27 min. 27 sec. N.; Long. 72 deg. 03 min. 46 sec. W.

AREA: 10752.00 acres 16.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-4													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1972	P	2.05	1.98	4.52	2.29	4.26	4.05	5.14	2.42	1.28	3.44	5.29	5.82	42.58													
	Q	0.824	0.581	1.457	4.297	7.330	1.874	1.593	0.742	0.211	0.749	1.669	1.572	22.89													
STA AV	P	1.92	2.28	2.47	2.90	3.19	3.38	3.33	4.11	2.39	3.29	3.67	3.29	36.23													
	Q	0.839	0.764	1.552	5.652	4.093	1.403	0.770	0.666	0.500	0.960	1.377	1.210	15.786													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
Maximum Discharge														Maximum Volume for Selected Time Interval													
		Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days																	
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1972		5-4	0.063	5-4	0.063	5-4	0.122	5-4	0.319	5-4	0.523	5-4	0.824	5-3	1.506	4-30	4.153										
MAXIMUMS FOR PERIOD OF RECORD																											
		5-4	0.063	5-4	0.063	5-4	0.122	5-4	0.319	5-4	0.523	4-18	0.900	5-3	1.506	4-14	4.323										
1972		1972		1972		1972		1972		1972		1969		1969		1969											

NOTES: Forest, 74%; cultivated, 12%; pasture, 12%; and idle, 2%. For map of watershed, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 67.4-19. Precipitation records began 1959. Runoff records began January 1, 1960. For long-time precipitation records, see National Weather Service records at St. Johnsbury, Vt.

1972 DAILY PRECIPITATION (inches)													NORTH DANVILLE, VERMONT WATERSHED W-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.02	0.05	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.66													
2	0.38	0.0	0.60	0.02	1.11	0.10	0.0	0.66	0.0	0.0	0.34	0.06													
3	0.02	0.10	0.40	0.03	1.07	0.0	1.05	0.25	0.0	0.0	0.30	0.03													
4	0.10	0.37	0.0	0.14	1.02	0.44	0.0	0.0	0.0	0.0	0.09	0.33													
5	0.07	0.02	0.26	0.02	0.01	0.01	0.0	0.0	0.0	0.0	0.30	0.13													
6	0.0	0.0	0.0	0.22	0.06	0.51	0.0	0.0	0.0	0.0	0.01	0.45													
7	0.09	0.0	0.10	0.02	0.04	0.03	0.07	0.44	0.0	1.68	0.01	0.0													
8	0.02	0.03	0.07	0.0	0.0	0.01	0.06	0.03	0.21	0.16	1.08	0.49													
9	0.0	0.0	0.06	0.0	0.0	0.40	0.0	0.0	0.05	0.10	0.67	0.01													
10	0.0	0.0	0.0	0.0	0.0	0.13	1.06	0.0	0.0	0.0	0.0	0.14													
11	0.05	0.0	0.0	0.04	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
12	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.36													
13	0.03	0.13	0.0	0.64	0.0	0.0	0.0	0.0	0.15	0.0	0.06	0.24													
14	0.04	0.0	0.10	0.16	0.15	0.0	0.0	0.10	0.05	0.12	0.26	0.0													
15	0.0	0.0	0.55	0.40	0.16	0.71	0.0	0.0	0.0	0.05	0.09	0.43													
16	0.0	0.06	0.0	0.0	0.14	0.25	0.33	0.0	0.0	0.0	0.04	0.43													
17	0.11	0.0	0.97	0.0	0.0	0.0	0.38	0.0	0.0	0.06	0.0	0.04													
18	0.0	0.0	0.28	0.09	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0													
19	0.10	0.38	0.0	0.17	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.13													
20	0.25	0.03	0.0	0.08	0.19	0.0	0.0	0.0	0.0	0.0	0.69	0.02													
21	0.04	0.16	0.04	0.0	0.0	0.04	1.16	0.0	0.0	0.0	0.0	0.18													
22	0.0	0.12	0.54	0.0	0.0	0.0	0.01	0.0	0.0	0.04	0.0	0.28													
23	0.0	0.02	0.26	0.26	0.0	0.18	0.15	0.0	0.0	0.45	0.0	0.04													
24	0.05	0.14	0.04	0.0	0.02	0.19	0.02	0.19	0.0	0.06	0.04	0.60													
25	0.42	0.0	0.02	0.0	0.0	0.0	0.16	0.55	0.0	0.01	0.0	0.0													
26	0.01	0.40	0.03	0.0	0.0	0.30	0.0	0.0	0.06	0.0	0.80	0.10													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.13													
28	0.07	0.0	0.0	0.0	0.0	0.11	0.07	0.01	0.0	0.30	0.32	0.05													
29	0.01	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.35	0.27	0.04	0.0													
30	0.03	0.09	0.0	0.0	0.0	0.15	0.0	0.04	0.41	0.06	0.13	0.60													
31	0.04	0.06	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0													
TOTAL	2.05	1.98	4.52	2.29	4.26	4.05	5.14	2.42	1.28	3.44	5.29	5.82													
STA AV	1.92	2.28	2.47	2.90	3.19	3.38	3.33	4.11	2.39	3.29	3.67	3.29													

NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gauge R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 14 yr (1959-1972) record period.

1972				MEAN DAILY DISCHARGE (cfs)				NORTH DANVILLE, VERMONT WATERSHED N-4				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	11.60	9.67	9.00	32.79	169.39	55.17	16.85	10.22	4.19	8.96	9.51	20.98
2	11.60	9.51	13.39	37.24	228.25	39.87	13.51	9.35	3.84	5.23	11.66	16.88
3	11.60	9.51	18.10	34.10	318.20	29.86	34.60	32.42	4.04	4.30	27.26	20.38
4	11.60	10.06	21.17	29.58E	349.95	31.54	39.01	24.18	3.88	3.80	20.85	16.25
5	11.60	9.55	16.06	30.55	262.26	37.43	18.71	15.18	3.58	3.44	15.36	18.06
6	11.25	9.51	13.10	28.74	189.85	30.27	14.74	11.51	2.86E	3.10	16.93	27.55
7	10.98	8.98	11.94	24.32	205.79	42.02	12.95	13.57	3.46E	30.61	16.96	62.67
8	10.98	8.75	11.77	24.32	160.88	29.14	12.50	22.78	2.85	42.01	35.34	26.42
9	10.69	8.61	11.15E	25.76	137.56	49.69	11.12	15.52	4.55	17.28	117.00	31.29
10	10.67	8.17	10.41E	27.99	116.44	39.51	40.81	11.95	3.52	11.05	37.28	27.95
11	10.92	8.17	10.23	31.28E	103.59	29.30	59.50	10.68	2.89	8.27	24.55	24.06
12	11.76	8.17	10.38	40.36	95.96	23.32	22.31	9.27	2.94	8.05	20.49	20.41
13	12.09	8.20	10.16	40.22	90.49	20.13	16.02	9.19	2.70	8.35	19.53	25.40
14	18.29	9.97	10.08	40.23	89.71	18.19	16.97	8.41	3.86	7.23	18.10	23.98
15	15.90	10.98	10.08	42.21	104.73	19.02	14.70	8.20	3.82	9.56	18.10	20.82
16	12.94	11.57	10.25	58.15	91.18	79.46	12.27	6.63	3.21	9.32	16.24E	21.98
17	11.02	10.26	16.67	78.86	77.14	31.47	43.40	6.43	2.83	8.63	16.39E	21.54E
18	10.98	9.67	63.07	91.51	67.75	22.69	18.34	9.23	2.52	8.17	15.29	20.35E
19	11.63	9.51	53.11	116.46	58.57	20.05	14.38	13.21	2.42	6.90	13.76	20.30
20	12.47	9.27	31.54	105.12	53.42	19.80	14.63	8.49	2.43	6.57E	26.14	20.13
21	11.63	8.70	22.68	93.45	50.78	18.57	67.90	7.44	2.17	5.96E	23.81	19.86
22	10.98	8.58	21.01	91.98	42.95	16.82	41.88	5.68	2.03	6.32	14.09	20.19
23	10.98	8.17	42.83	96.70	38.13	16.04	20.46	5.04	1.87	12.88	12.90	20.30
24	11.11	8.17	40.43	95.59	34.61	17.07	19.24	5.52	1.85	16.51	15.63	20.35
25	13.77	8.17	27.24	94.24	31.06	16.63	22.53	8.19	2.02	11.20	15.52	20.80
26	17.79	8.17	23.10	86.43	29.21	22.13	24.15	9.04	2.20	9.14	45.52	21.37
27	12.85	8.17	21.06	78.71	27.88	17.75	17.88	7.47	2.39	7.88	52.01	21.36
28	11.58	8.17	20.15	94.29	25.09	15.00	16.80	11.61	2.09	7.38	30.18	20.31
29	10.83	8.17	22.65	124.01	22.51	22.12	16.27	8.24	2.00	22.59	26.48E	19.10
30	10.20		29.89	145.35	20.75	15.70	14.16	5.81	10.09	16.54	20.77E	18.15
31	10.08		25.55		22.91		11.02	4.81		11.03		21.12
MEAN	12.01	9.05	21.24	64.70	106.81	28.22	23.21	10.81	3.17	10.91	25.13	22.91
INCHES	0.824	0.581	1.457	4.297	7.330	1.874	1.593	0.742	0.211	0.749	1.669	1.572
STA AV	0.839	0.764	1.552	5.652	4.093	1.403	0.770	0.666	0.500	0.560	1.375	1.210

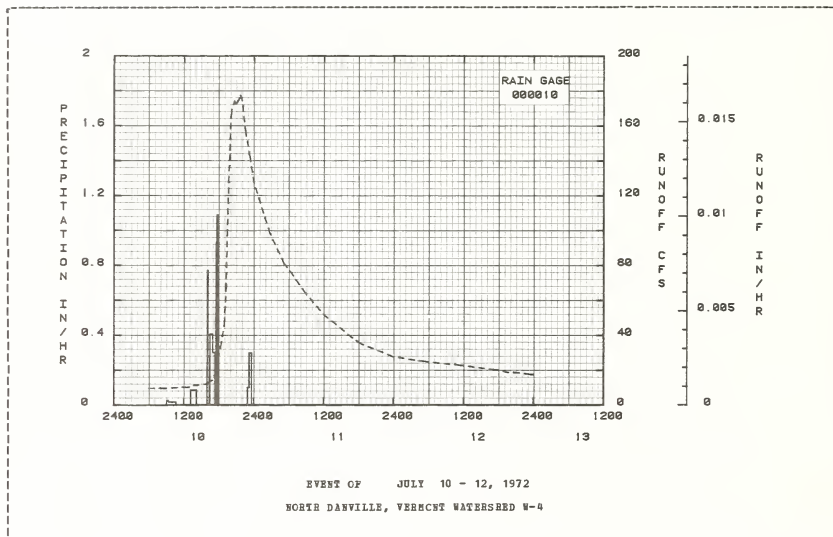
NOTES: To convert mean daily discharge in CFS to IS/DAY, multiply by 0.002213695. STA AV based on 13 yr (1960-1972) record period.

1972				SELECTED RUNOFF EVENT				NORTH DANVILLE, VERMONT WATERSHED N-4			
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 10 - 12, 1972											
7-10	EG 000010 0.0	0.005	7-10	EG 000010 904	0.0	0.0	7-10	600	9.794	0.0	
				927	0.0261	0.01		903	9.794	0.0028	
				1040	0.0164	0.03		1280	10.375	0.0055	
				1314	0.0	0.03		1258	10.375	0.0064	
				1416	0.0871	0.12		1343	11.285	0.0071	
WATERSHED CONDITIONS:				1603	0.0	0.12		1545	11.918	0.0093	
74% forest land; 12% pastured				1610	0.7714	0.21		1652	11.296	0.0106	
land; 12% cultivated; 2% idle				1623	0.2770	0.27		1730	18.155	0.0116	
land with dense grass and				1631	0.0	0.27		1759	26.549	0.0126	
brush growth.				1659	0.4071	0.46		1831	36.295	0.0142	
				1721	0.3000	0.57		1859	47.188	0.0160	
				1732	0.0	0.57		1916	66.857	0.0175	
				1741	0.9334	0.71		1926	97.455	0.0187	
				1752	1.0510	0.91		1940	128.408	0.0211	
				2255	0.0	0.91		1957	158.467	0.0249	
				2319	0.1000	0.95		2011	169.341	0.0284	
				2341	0.3000	1.06		2035	174.134	0.0348	
								2048	172.528	0.0382	
								2100	172.528	0.0414	
								2125	175.750	0.0481	
								2137	177.374	0.0513	
								2156	174.134	0.0564	
								2230	156.949	0.0551	
								2318	182.249	0.0761	
								2400	127.071	0.0848	
								7-11	250	97.455	0.1141
								509	81.292	0.1332	
								901	63.291	0.1590	
								1280	51.722	0.1748	
								1759	35.670	0.1989	

NOTES: To convert runoff in CFS to IS/8E, multiply by 0.000052. For 30-day antecedent rainfall and runoff, see tables of daily amounts.

1972 SELECTED RUNOFF EVENT						NORTH DANVILLE, VERMONT WATERSHED W-4					
ANTECEDENT CONDITIONS			RAINFALL			RUSCFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 10 - 12, 1972 (CONTINUED)											
							7-11	2400	27.601	0.2165	
							7-12	600	24.517	0.2309	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For 30-day antecedent rainfall and runoff, see tables of daily amounts.



NORTH DANVILLE, VERMONT WATERSHED W-5

LOCATION: Caledonia County, Vermont; 2 mi. NW of St. Johnsbury; Sleepers River, Connecticut River Basin.
Lat. 44 deg. 26 min. 04 sec. N.; Long. 72 deg. 02 min. 22 sec. W.

AREA: 27469.00 acres 42.92 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-5															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1972	P	2.05	1.98	4.52	2.29	4.26	4.05	5.14	2.42	1.28	3.44	5.29	5.82	42.54															
	Q	0.781	0.530	1.755	4.547	7.362	1.749	1.561	0.664	0.199	0.698	1.794	1.547	23.187															
STA AV	P	1.92	2.28	2.47	2.90	3.19	3.38	3.33	4.11	2.39	3.29	3.67	3.29	36.23															
	Q	1.242	1.128	2.235	5.991	3.648	1.165	0.676	0.624	0.457	0.934	1.420	1.349	20.869															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Series Discharge				Maximum Volume for Selected Time Interval																							
		Date		Rate		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1972		5-4	0.093	5-4	0.091	5-4	0.177	5-4	0.441	5-4	0.685	5-4	1.001	5-3	1.788	4-30	4.641												
MAXIMUMS FOR PERIOD OF RECORD																													
		5-4	0.093	5-4	0.091	5-4	0.177	5-4	0.441	5-4	0.685	5-4	1.001	5-3	1.788	4-30	4.641												
1972		1972		1972		1972		1972		1972		1972		1972		1972													

NOTES: Watershed conditions: Forest predominantly hardwoods, 67%; cultivated land consisting of mostly clover, orchard grass, and timothy hay with very little in row crops, 17%; pasture of mostly bluegrass, 13%; idle land in tall grasses and woody plants, 2%; and homesites and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 67.5-5. Precipitation records began January 1, 1959. Runoff records began January 1, 1960. For long-time precipitation records, see National Weather Service records at St. Johnsbury, Vt.

1972	DAILY PRECIPITATION (inches)						NORTH DANVILLE, VERMONT WATERSHED W-5						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.02	0.05	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.66
2	0.38	0.0	0.60	0.02	1.11	0.10	0.0	0.46	0.0	0.0	0.34	0.06	0.06
3	0.02	0.10	0.40	0.03	1.07	0.0	1.05	0.25	0.0	0.0	0.30	0.03	0.03
4	0.10	0.37	0.0	0.14	1.02	0.44	0.0	0.0	0.0	0.0	0.05	0.33	0.33
5	0.07	0.02	0.26	0.02	0.01	0.01	0.0	0.0	0.0	0.0	0.30	0.13	0.13
6	0.0	0.0	0.0	0.22	0.06	0.51	0.0	0.0	0.0	0.0	0.01	0.45	0.45
7	0.09	0.0	0.10	0.02	0.04	0.03	0.07	0.44	0.0	1.68	0.01	0.0	0.0
8	0.02	0.03	0.07	0.0	0.0	0.01	0.06	0.03	0.21	0.16	1.08	0.49	0.49
9	0.0	0.0	0.06	0.0	0.0	0.40	0.0	0.0	0.05	0.10	0.67	0.01	0.01
10	0.0	0.0	0.0	0.0	0.0	0.13	1.06	0.0	0.0	0.0	0.0	0.14	0.14
11	0.05	0.0	0.0	0.04	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.36	0.36
13	0.03	0.13	0.0	0.64	0.0	0.0	0.0	0.0	0.15	0.0	0.06	0.24	0.24
14	0.04	0.0	0.10	0.16	0.15	0.0	0.0	0.10	0.05	0.12	0.26	0.0	0.0
15	0.0	0.0	0.55	0.40	0.16	0.71	0.0	0.0	0.0	0.05	0.09	0.43	0.43
16	0.0	0.06	0.0	0.0	0.14	0.25	0.33	0.0	0.0	0.0	0.04	0.43	0.43
17	0.11	0.0	0.57	0.0	0.0	0.0	0.38	0.0	0.0	0.06	0.0	0.04	0.04
18	0.0	0.0	0.28	0.09	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0
19	0.10	0.38	0.0	0.17	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.13	0.13
20	0.25	0.03	0.0	0.08	0.19	0.0	0.0	0.0	0.0	0.0	0.69	0.02	0.02
21	0.04	0.16	0.04	0.0	0.0	0.04	1.16	0.0	0.0	0.0	0.0	0.18	0.18
22	0.0	0.12	0.54	0.0	0.0	0.0	0.01	0.0	0.0	0.04	0.0	0.28	0.28
23	0.0	0.02	0.26	0.26	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.04	0.04
24	0.05	0.14	0.04	0.0	0.0	0.02	0.15	0.0	0.0	0.06	0.04	0.0	0.0
25	0.42	0.0	0.02	0.0	0.0	0.0	0.16	0.55	0.0	0.01	0.0	0.0	0.0
26	0.01	0.40	0.03	0.0	0.0	0.30	0.0	0.0	0.06	0.0	0.80	0.10	0.10
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.13	0.13
28	0.07	0.0	0.0	0.0	0.0	0.11	0.07	0.01	0.0	0.30	0.32	0.05	0.05
29	0.01	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.35	0.27	0.04	0.0	0.0
30	0.03	0.09	0.0	0.0	0.0	0.15	0.0	0.04	0.41	0.0	0.13	0.60	0.60
31	0.04	0.06	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.49
TOTAL	2.05	1.98	4.52	2.29	4.26	4.05	5.14	2.42	1.28	3.44	5.29	5.82	
STA AV	1.92	2.28	2.47	2.90	3.19	3.38	3.33	4.11	2.39	3.29	3.67	3.29	

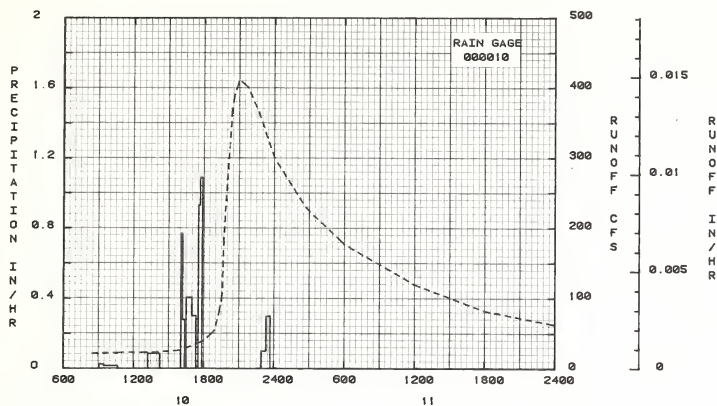
NOTES: For temperature data see table of maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 14 yr (1959-1972) record period.

1972	MEAN DAILY DISCHARGE (cfs)					NORTH DANVILLE, VERMONT WATERSHED W-5						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	27.4	22.1	21.1	93.5	483.0	124.8	45.6	23.2	10.0	20.9	23.7	54.3
2	27.4	21.4	41.1	108.1	666.6	93.0	34.4	21.2	8.7	12.6	27.8	44.4
3	27.4	23.8	22.1	96.2	669.8	70.5	31.4	71.1	8.6	10.4	69.1	52.2
4	27.4	23.2	74.6	82.5	1079.0	76.6	104.5	50.9	8.4	9.3	54.9	42.3
5	27.4	22.5	50.1	75.6	711.1	101.2	45.6	32.0	8.1	8.4	38.3	46.0
6	27.4	21.4	36.2	75.2	481.9	77.4	34.9	24.7	7.5	7.7	40.8	77.7
7	26.1	21.4	32.3	65.1	545.1	125.6	29.4	28.7	6.7	70.3	42.9	165.3
8	24.7	20.3	32.0	63.8	390.9	75.9	28.2	50.8	7.2	105.4	97.0	66.2
9	24.7	19.9	29.4	67.3	326.9	131.6	26.6	34.7	11.3	35.4	362.8	78.1
10	24.7	19.0	25.5	75.6	270.1	104.4	86.6	26.9	9.1	26.5	102.1	71.0
11	25.2	18.0	25.0	82.0	237.4	73.0	137.6	24.9	7.2	17.8	63.5	59.9
12	27.4	17.7	24.7	63.6	220.5	50.0	20.3	16.6	6.2	19.2	52.2	46.6
13	28.5	18.1	24.7	104.7	203.8	47.6	35.6	20.0	6.4	18.0	52.6	62.7
14	49.4	23.0	23.1	104.5	202.8	42.5	34.7	18.3	9.0	16.2	48.4	59.5
15	42.0	26.5	23.4	112.0	242.2	41.1	30.7	18.2	9.2	22.5	46.3	50.3
16	33.8	30.3	24.5	160.7	209.4	141.9	25.6	14.5	7.2	23.3	41.7	54.2
17	28.0	25.9	55.6	219.4	173.2	64.5	84.6	13.8	6.7	21.8	36.5	65.6
18	27.4	23.8	272.9	261.8	145.7	46.0	37.8	19.7	6.4	19.8	35.6	51.6
19	26.6	23.0	174.5	345.1	126.5	41.1	31.1	30.6	6.2	16.9	34.4	49.4
20	28.4	22.9	86.6	303.2	115.6	40.6	32.0	18.2	6.2	14.0	71.2	49.4
21	27.4	19.3	65.0	257.6	110.3	38.0	236.0	14.3	5.8	13.6	68.8	49.4
22	25.2	19.1	62.7	244.8	89.6	34.9	132.7	12.7	5.5	14.3	35.9	49.4
23	24.9	19.1	151.9	259.1	77.9	33.0	54.2	11.3	5.3	27.1	36.6	49.4
24	26.4	19.1	125.1	256.0	70.2	37.4	52.0	11.9	5.3	39.4	40.5	49.5
25	36.4	18.3	79.9	249.5	62.3	39.5	61.9	29.0	5.1	27.9	40.1	50.9
26	46.0	17.9	64.9	219.4	56.8	48.1	57.7	31.7	5.7	21.7	135.7	52.6
27	33.1	19.1	56.9	191.1	92.6	39.2	45.6	17.6	6.7	19.2	152.2	52.8
28	28.4	19.1	54.7	226.6	48.0	62.9	40.9	29.7	5.7	18.6	86.9	49.6
29	26.1	19.1	64.4	327.2	43.0	71.2	36.8	19.9	5.7	54.6	74.2	42.4
30	23.7		84.0	403.7	39.1	40.6	32.0	14.3	22.6	43.1	56.9	43.3
31	23.0		71.7	43.5			25.2	11.8		28.3		49.4
MEAN	29.08	21.10	65.32	174.91	274.06	67.30	58.13	24.73	7.66	25.97	69.00	57.60
INCHES	0.761	0.530	1.755	4.547	7.362	1.749	1.361	0.668	0.199	0.658	1.758	1.547
STA AV	1.242	1.128	2.235	5.991	3.648	1.165	0.676	0.624	0.457	0.934	1.420	1.349

NOTES: To convert mean daily discharge in CFS to IS/DAY, multiply by 0.0008665. STA AV based on 13 yr (1960-1972) record period.

1972	SELECTED RUNOFF EVENT					NORTH DANVILLE, VERMONT WATERSHED W-5				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 10 - 11, 1972										
EG 000010			EG 000010							
7-10	0.0	0.007	7-10	904	0.0	0.0	7-10	830	22.200	0.0
				927	0.0261	0.01		1043	23.014	0.0018
				1040	0.0164	0.03		1245	23.014	0.0035
				1314	0.0	0.03		1603	26.450	0.0064
				1416	0.0871	0.12		1759	38.531	0.0087
WATERSHED CONDITIONS:										
67% forest; 17% hay; 13%			1603			0.0	0.12	1855 54.811 0.0103		
pastured land; 2% idle land			1610			0.7714	0.21	1920 81.502 0.0113		
with dense brush and grass			1623			0.2770	0.27	1935 108.406 0.0122		
growth; 1% homesites and			1631			0.0	0.27	1941 179.471 0.0127		
roads.			1659			0.4071	0.46	1957 262.217 0.0148		
				1721	0.3000	0.57		2011	314.757	0.0172
				1732	0.0	0.57		2021	364.449	0.0193
				1741	0.5334	0.71		2034	390.952	0.0223
				1752	1.0910	0.91		2056	409.245	0.0275
				2255	0.0	0.91		2110	405.245	0.0310
				2319	0.1000	0.95		2145	400.035	0.0396
				2341	0.3000	1.06		2240	364.449	0.0522
								2400	299.156	0.0682
								244	228.162	0.0982
								600	176.659	0.1181
								1200	119.149	0.1501
								1800	81.502	0.1718
								2400	62.007	0.1873

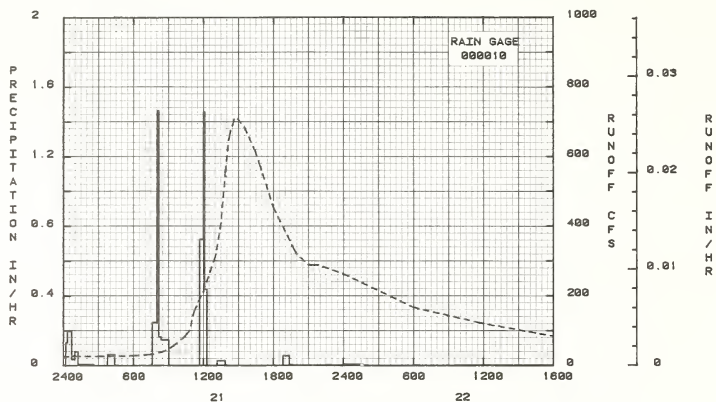
NOTES: To convert runoff in CFS to IS/HR, multiply by 0.000036104. For 30-day antecedent rainfall and runoff, see tables of daily values.



EVENT OF JULY 10 - 11, 1972
NORTH DANVILLE, VERMONT WATERSHED W-5

1972 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-5								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 20 - 22, 1972											
RG 000010			RG 000010								
7-20	0.0	0.028	7-20	2400	0.0	0.0	7-20	2400	26.450	0.0	
			7-21	13	0.0	0.0	7-21	26	26.450	0.0004	
				22	0.1334	0.02		58	27.354	0.0009	
				43	0.2000	0.09		301	27.354	0.0029	
				100	0.0353	0.10		600	29.216	0.0059	
WATERSHED CONDITIONS:				115	0.0800	0.12		744	33.166	0.0078	
67% forest; 17% hay; 13%				236	0.0074	0.13		846	43.176	0.0092	
pastured land; 2% idle land				347	0.0	0.13		924	56.208	0.0103	
with dense brush and grass				424	0.0649	0.17		1016	79.754	0.0124	
growth; 1% homesites and				738	0.0	0.17		1049	100.248	0.0142	
roads.				802	0.2500	0.27		1113	157.713	0.0161	
				811	1.4667	0.49		1200	212.191	0.0213	
				822	0.1636	0.52		1304	318.731	0.0315	
				903	0.1464	0.62		1330	409.245	0.0372	
				1141	0.0	0.62		1353	557.238	0.0439	
				1200	0.7263	0.85		1410	650.862	0.0500	
				1207	1.4571	1.02		1420	675.642	0.0540	
				1218	0.4364	1.10		1437	707.402	0.0610	
				1311	0.0	1.10		1455	707.402	0.0687	
				1352	0.0293	1.12		1531	681.925	0.0638	
				1850	0.0	1.12		1625	614.729	0.1048	
				1922	0.0562	1.15		1656	562.833	0.1158	
				2258	0.0028	1.16		1759	452.254	0.1351	
				2400	0.0	1.16		1959	318.731	0.1629	
			7-22	140	0.0060	1.17		2102	287.767	0.1744	
								2151	287.767	0.1829	
								2400	262.217	0.2043	
							7-22	559	165.675	0.2505	
								1200	119.149	0.2815	
								1800	83.272	0.3034	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00036104. For 30-day antecedent rainfall and runoff, see tables of daily values.



EVENT OF JULY 20 - 22, 1972
NORTH DAVILLE, VERMONT WATERSHED W-5

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; north flowing tributary to the Snake River. Lat. 43 deg. 15 min. 49 sec. N.; Long. 116 deg. 45 min. 10 sec. W.

AREA: 57700.00 acres 90.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO WATERSHED W-1 (036068)																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																		
1972	P	3.06	2.00	2.23	1.20	0.56	2.36	0.03	0.45	1.23	1.39	1.71	3.01	19.22																	
	Q	0.645	0.577	2.050	0.863	0.836	0.601	0.070	0.029	0.023	0.050	0.081	0.180	6.005																	
STA AV	P	3.80	1.44	1.83	1.33	0.94	2.01	0.27	1.01	0.99	1.44	2.22	2.43	19.72																	
	Q	0.534	0.318	0.485	0.571	0.612	0.322	0.042	0.024	0.015	0.026	0.052	0.225	3.227																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
Maximum Discharge														Maximum Volume for Selected Time Interval																	
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days															
Date		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.			
1972	3- 2	0.012	3- 2	0.012	3- 2	0.023	3- 2	0.063	3- 2	0.117	3- 2	0.211	3- 2	0.340	2- 28	0.829															
MAXIMUMS FOR PERIOD OF RECORD																															
12-23		0.065		12-23		0.064		12-23		0.125		12-23		0.270		12-23		0.327		12-23		0.453		12-23		0.721		12-28		1.313	
1964				1964				1964				1964				1964				1964				1964				1965			

NOTES: Watershed conditions: Predominantly sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of flooded irrigated alfalfa, 3%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, p. 68-1-6. Records began 1963. Precipitation data are Thiessen weighted average 'Computed Actual' amounts from 45 rain gages. Station average precipitation amounts are based on 1968-72 data. Station average runoff amounts are based on the 1963-72 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles W.E. of watershed.

1972 DAILY AIR TEMPERATURE (degrees F)													REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan max min	Feb max min	Mar max min	Apr max min	May max min	Jun max min	Jul max min	Aug max min	Sep max min	Oct max min	Nov max min	Dec max min													
1	39 31	22 9	40 26	59 41	61 26	84 50	86 54	87 57	82 44	72 41	45 28	60 43													
2	38 30	24 2	50 42	57 29	70 33	83 48	76 48	82 57	82 47	73 41	53 33	52 34													
3	24 4	24 2	46 30	54 23	70 39	81 55	80 50	83 53	83 49	74 37	60 32	34 21													
4	26 4	31 10	42 29	63 39	70 35	80 50	87 48	88 48	84 49	60 47	52 40	22 0													
5	36 13	33 20	59 39	62 48	70 39	86 46	90 53	92 54	69 53	62 41	46 24	13 -9													
6	40 19	41 25	58 25	61 42	69 47	83 54	94 54	95 54	65 47	61 34	46 22	28 11													
7	45 25	45 28	48 20	50 30	71 44	79 67	87 52	94 60	71 38	71 35	45 28	20 7													
8	36 22	46 27	59 24	59 27	59 30	73 54	70 52	97 58	82 43	71 37	45 32	9 -10													
9	39 32	40 23	69 32	50 29	59 29	71 54	88 63	96 67	66 46	65 41	47 27	10 -20													
10	35 31	38 17	62 46	56 26	63 37	57 41	80 45	92 58	63 46	62 47	45 33	3 -20													
11	44 35	43 19	56 37	55 32	65 36	59 35	81 54	99 59	53 43	63 41	45 35	2 -20													
12	41 24	49 30	55 35	48 29	69 39	69 36	89 55	97 67	60 42	67 37	45 25	10 -8													
13	28 9	46 29	55 34	41 26	77 38	72 43	92 58	77 58	65 34	65 45	48 26	24 -8													
14	33 10	38 26	53 30	53 29	84 43	80 46	83 57	85 54	71 36	61 42	42 36	18 -12													
15	35 9	45 38	58 32	62 34	80 53	83 50	85 55	79 55	77 37	56 39	46 36	27 -9													
16	34 8	47 40	63 35	48 29	79 42	82 53	86 56	79 50	83 52	61 40	41 35	34 19													
17	45 18	52 35	67 36	40 29	66 40	76 50	85 54	72 52	81 50	63 35	42 31	48 28													
18	46 43	53 30	54 39	42 26	60 31	70 46	93 55	83 45	82 53	63 35	44 25	50 35													
19	46 42	59 32	51 30	53 20	63 43	71 44	73 46	81 55	62 52	51 44	42 26	47 40													
20	47 41	54 31	54 26	61 32	67 46	84 44	67 38	83 50	64 38	65 43	41 24	49 40													
21	45 34	50 27	59 34	57 35	51 41	75 51	70 44	82 50	80 36	64 42	39 16	54 50													
22	42 31	46 31	62 34	51 26	59 43	81 44	76 42	84 49	65 40	63 36	38 14	51 40													
23	38 27	41 28	45 25	67 25	67 42	71 52	89 45	73 49	56 35	59 37	35 11	50 35													
24	37 22	35 30	49 25	57 43	62 41	73 44	91 59	76 45	51 32	55 34	20 42	36 22													
25	37 27	38 27	38 22	48 30	63 35	66 47	89 53	83 50	53 28	61 30	48 25	48 31													
26	29 17	49 28	34 20	56 27	70 37	76 31	88 49	87 52	53 33	53 27	30 32	53 30													
27	25 10	53 46	41 18	68 27	79 38	78 48	87 55	90 52	55 32	48 21	56 26	49 33													
28	26 17	53 40	42 25	71 37	82 44	89 49	93 51	92 54	60 30	47 30	36 26	34 28													
29	29 9	44 30	45 26	45 31	86 45	89 54	97 54	84 57	63 32	41 26	48 28	32 23													
30	27 6			54 25	48 24	90 51	87 55	87 65	71 31	40 23	53 33	37 22													
31	24 6		58 26			90 60		93 63	78 49		44 20	33 15													
AV.	36	21	43	26	52	30	55	31	70	40	77	48	85	52	86	54	68	41	60	36	45	28	34	16	
MEAN	28.7	34.5	41.2	42.8	55.2	62.5	68.7	69.8	54.7	48.3	36.2	25.0													
STA AV	37	21	45	26	48	25	59	67	79	74	47	86	52	85	51	73	43	61	33	48	27	38	21		

NOTES: Temperature data taken from hygrothermograph record at station 076X59. STA AV is average for 10 yr (1963-72) record period.

1972 DAILY PRECIPITATION (inches)						REYNOLDS, IDAHO WATERSHED #1 (036068)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00T	0.01	0.44	0.06	0.0	0.0	0.00T	0.00T	0.0	0.00T	0.01	0.0
2	0.03	0.00T	0.78	0.21	0.0	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.00T
3	0.00T	0.00T	0.09	0.02	0.0	0.03	0.00T	0.00T	0.0	0.0	0.02	0.54
4	0.01	0.0	0.00T	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.03	0.29	0.01
5	0.00T	0.00T	0.00T	0.01	0.0	0.0	0.00T	0.0	0.27	0.00T	0.01	0.00T
6	0.00T	0.03	0.00T	0.02	0.00T	0.28	0.00T	0.0	0.00T	0.0	0.0	0.17
7	0.01	0.00T	0.00T	0.00T	0.01	0.76	0.00T	0.00T	0.0	0.0	0.01	0.10
8	0.01	0.00T	0.00T	0.00T	0.01	0.38	0.0	0.00T	0.0	0.00T	0.07	0.06
9	0.00T	0.00T	0.40	0.00T	0.00T	0.1	0.0	0.00T	0.20	0.00T	0.00T	0.00T
10	0.01	0.00T	0.00T	0.0	0.0	0.31	0.00T	0.01	0.00T	0.03	0.01	0.00T
11	0.02	0.01	0.00T	0.18	0.00T	0.00T	0.0	0.00T	0.21	0.04	0.03	0.00T
12	0.47	0.00T	0.02	0.24	0.0	0.0	0.0	0.0	0.00T	0.00T	0.01	0.19
13	0.02	0.22	0.05	0.01	0.00T	0.00T	0.00T	0.00T	0.0	0.00T	0.00T	0.01
14	0.0	0.14	0.00T	0.00T	0.0	0.02	0.00T	0.28	0.00T	0.03	0.03	0.00T
15	0.0	0.16	0.00T	0.00T	0.0	0.03	0.0	0.04	0.0	0.16	0.00T	0.00T
16	0.00T	0.01	0.00T	0.15	0.0	0.00T	0.00T	0.00T	0.00T	0.06	0.07	0.01
17	0.02	0.06	0.03	0.02	0.01	0.00T	0.0	0.00T	0.0	0.00T	0.01	0.64
18	0.79	0.00T	0.40	0.00T	0.00T	0.00T	0.00T	0.00T	0.00T	0.10	0.18	0.16
19	0.00T	0.0	0.00T	0.0	0.06	0.0	0.0	0.09	0.01	0.68	0.54	0.26
20	0.15	0.02	0.00T	0.00T	0.08	0.00T	0.00T	0.02	0.0	0.02	0.00T	0.01
21	0.21	0.01	0.0	0.28	0.36	0.0	0.02	0.00T	0.01	0.00T	0.00T	0.01
22	0.89	0.14	0.01	0.00T	0.02	0.01	0.0	0.0	0.00T	0.00T	0.00T	0.23
23	0.28	0.23	0.03	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.00T	0.0	0.13
24	0.00T	0.06	0.00T	0.00T	0.00T	0.0	0.0	0.04	0.0	0.00T	0.00T	0.11
25	0.00T	0.00T	0.21	0.01	0.0	0.03	0.0	0.0	0.00T	0.00T	0.06	0.01
26	0.02	0.22	0.04	0.0	0.0	0.0	0.0	0.0	0.00T	0.02	0.42	0.00T
27	0.07	0.06	0.00T	0.0	0.0	0.0	0.0	0.0	0.28	0.00T	0.00T	0.03
28	0.00T	0.60	0.01	0.00T	0.0	0.0	0.0	0.0	0.00T	0.10	0.00T	0.06
29	0.00T	0.01	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.02	0.00T	0.00T
30	0.0	0.0	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.00T	0.00T	0.00T	0.05
31	0.03	0.00T	0.00T	0.00T	0.00T	0.0	0.0	0.01	0.0	0.0	0.00T	0.19
TOTAL	3.06	2.00	2.23	1.20	0.56	2.36	0.03	0.45	1.23	1.39	1.71	3.01
STA AV	3.80	1.44	1.83	1.33	0.94	2.01	0.27	1.01	0.99	1.44	2.22	2.43

NOTES: Values are Thiessen weighted average 'Actual' amounts from 45 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Saxton, "Computing Actual Precipitation", Proceedings of WMO-INS Symposium, Gellie, Norway, August, 1972. The equation used was $\log_e (U/S) = \log_e (0/S) + 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 5 yr (1968-72) record period.

1972 DAILY PRECIPITATION (inches)						REYNOLDS, IDAHO WATERSHED #1 (036068)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00T	0.01	0.35	0.05	0.0	0.0	0.00T	0.00T	0.0	0.00T	0.01	0.0
2	0.01	0.00T	0.63	0.18	0.0	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.00T
3	0.00T	0.00T	0.07	0.01	0.0	0.03	0.00T	0.00T	0.0	0.0	0.02	0.37
4	0.01	0.0	0.00T	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.02	0.26	0.01
5	0.00T	0.00T	0.00T	0.01	0.0	0.0	0.00T	0.0	0.25	0.00T	0.00T	0.00T
6	0.00T	0.03	0.00T	0.01	0.00T	0.26	0.00T	0.0	0.00T	0.0	0.0	0.09
7	0.00T	0.00T	0.00T	0.00T	0.01	0.72	0.00T	0.00T	0.0	0.0	0.01	0.05
8	0.01	0.00T	0.00T	0.00T	0.01	0.36	0.0	0.00T	0.0	0.00T	0.06	0.02
9	0.00T	0.00T	0.00T	0.0	0.0	0.48	0.0	0.00T	0.0	0.18	0.00T	0.00T
10	0.00T	0.00T	0.00T	0.0	0.0	0.29	0.00T	0.01	0.00T	0.03	0.01	0.00T
11	0.01	0.01	0.00T	0.12	0.00T	0.00T	0.0	0.00T	0.19	0.03	0.02	0.00T
12	0.27	0.00T	0.02	0.13	0.0	0.0	0.0	0.0	0.00T	0.00T	0.01	0.12
13	0.01	0.14	0.04	0.01	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.00T	0.00T
14	0.0	0.09	0.00T	0.00T	0.0	0.02	0.00T	0.26	0.00T	0.02	0.02	0.00T
15	0.0	0.10	0.00T	0.00T	0.0	0.03	0.0	0.03	0.0	0.15	0.00T	0.00T
16	0.00T	0.00T	0.00T	0.11	0.0	0.00T	0.00T	0.00T	0.00T	0.05	0.05	0.01
17	0.01	0.03	0.02	0.01	0.01	0.00T	0.0	0.00T	0.0	0.00T	0.01	0.56
18	0.63	0.00T	0.33	0.00T	0.00T	0.00T	0.00T	0.00T	0.00T	0.00T	0.08	0.15
19	0.00T	0.0	0.00T	0.0	0.05	0.0	0.0	0.09	0.01	0.60	0.42	0.21
20	0.12	0.01	0.00T	0.00T	0.07	0.00T	0.00T	0.02	0.0	0.01	0.00T	0.01
21	0.17	0.01	0.0	0.23	0.28	0.0	0.02	0.00T	0.01	0.00T	0.00T	0.00T
22	0.73	0.07	0.01	0.00T	0.01	0.01	0.0	0.0	0.00T	0.00T	0.00T	0.16
23	0.12	0.02	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.00T	0.0	0.0	0.0
24	0.00T	0.04	0.05	0.00T	0.00T	0.0	0.0	0.0	0.04	0.0	0.00T	0.08
25	0.00T	0.00T	0.13	0.01	0.0	0.03	0.0	0.0	0.00T	0.00T	0.05	0.00T
26	0.02	0.15	0.03	0.0	0.0	0.0	0.0	0.0	0.35	0.01	0.37	0.00T
27	0.04	0.04	0.00T	0.0	0.0	0.0	0.0	0.0	0.25	0.00T	0.00T	0.01
28	0.00T	0.47	0.01	0.00T	0.0	0.0	0.0	0.0	0.00T	0.06	0.00T	0.03
29	0.00T	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.02	0.00T	0.02	0.00T	0.00T
30	0.00T	0.0	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.00T	0.00T	0.00T	0.03
31	0.02	0.00T	0.00T	0.00T	0.00T	0.0	0.0	0.01	0.0	0.0	0.00T	0.10
TOTAL	2.30	1.33	1.70	0.85	0.45	2.24	0.03	0.42	1.11	1.21	1.41	2.12
STA AV												

NOTES: Values are Thiessen weighted average amounts from 45 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

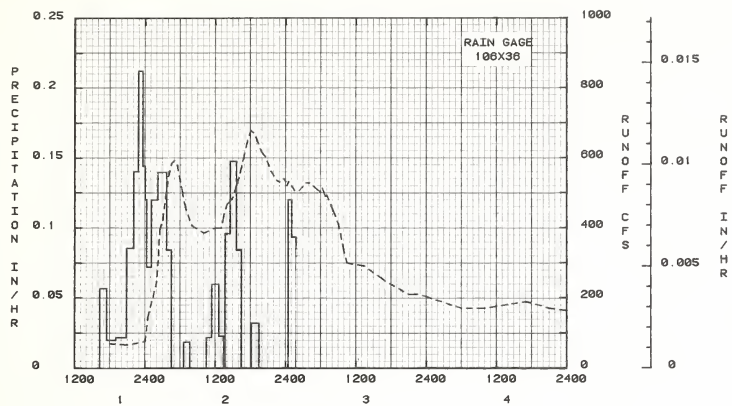
1972 DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO WATERSHED #1 (036068)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00T	0.01	0.40	0.05	0.0	0.0	0.00T	0.00T	0.0	0.00T	0.01	0.0	1	0.00T	0.01	0.00T	0.0	0.0	0.00T	0.0	0.00T	0.0	0.00T	0.01	0.0
2	0.02	0.00T	0.71	0.20	0.0	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.00T	2	0.02	0.00T	0.08	0.01	0.0	0.03	0.00T	0.00T	0.0	0.0	0.02	0.45
3	0.00T	0.00T	0.00T	0.00T	0.00T	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.03	3	0.00T	0.0	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.03	0.27	0.01	
4	0.01	0.0	0.00T	0.00T	0.01	0.0	0.00T	0.0	0.27	0.00T	0.01	0.00T	4	0.01	0.00T	0.00T	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.03	0.01	0.00T
5	0.00T	0.00T	0.00T	0.00T	0.0	0.0	0.30	0.00T	0.01	0.00T	0.03	0.01	5	0.00T	0.00T	0.00T	0.0	0.0	0.30	0.00T	0.01	0.00T	0.03	0.01	0.00T
6	0.00T	0.03	0.00T	0.00T	0.01	0.00T	0.27	0.00T	0.0	0.00T	0.0	0.0	6	0.00T	0.03	0.00T	0.00T	0.01	0.00T	0.27	0.00T	0.0	0.0	0.0	0.12
7	0.01	0.00T	0.00T	0.00T	0.00T	0.01	0.74	0.00T	0.00T	0.0	0.0	0.01	7	0.01	0.00T	0.00T	0.00T	0.00T	0.01	0.74	0.00T	0.00T	0.0	0.0	0.07
8	0.01	0.00T	0.00T	0.00T	0.00T	0.01	0.27	0.0	0.00T	0.0	0.00T	0.07	8	0.01	0.00T	0.00T	0.00T	0.00T	0.01	0.27	0.0	0.00T	0.07	0.0	0.00T
9	0.00T	0.00T	0.00T	0.00T	0.0	0.0	0.49	0.0	0.00T	0.0	0.19	0.00T	9	0.00T	0.00T	0.00T	0.00T	0.0	0.49	0.0	0.00T	0.0	0.19	0.00T	0.00T
10	0.00T	0.00T	0.00T	0.00T	0.0	0.0	0.30	0.00T	0.01	0.00T	0.03	0.01	10	0.00T	0.00T	0.00T	0.00T	0.0	0.30	0.00T	0.01	0.00T	0.03	0.01	0.00T
11	0.01	0.01	0.00T	0.00T	0.14	0.00T	0.00T	0.0	0.00T	0.20	0.04	0.03	11	0.01	0.01	0.00T	0.00T	0.14	0.00T	0.0	0.00T	0.20	0.04	0.03	0.00T
12	0.36	0.00T	0.02	0.18	0.0	0.0	0.0	0.0	0.0	0.00T	0.01	0.16	12	0.36	0.00T	0.02	0.18	0.0	0.0	0.0	0.0	0.00T	0.01	0.16	0.00T
13	0.01	0.18	0.04	0.01	0.00T	0.00T	0.00T	0.00T	0.00T	0.0	0.00T	0.01	13	0.01	0.18	0.04	0.01	0.00T	0.00T	0.00T	0.00T	0.0	0.00T	0.01	0.00T
14	0.0	0.12	0.00T	0.00T	0.00T	0.0	0.02	0.00T	0.27	0.00T	0.02	0.03	14	0.0	0.12	0.00T	0.00T	0.00T	0.0	0.02	0.00T	0.27	0.00T	0.02	0.03
15	0.0	0.13	0.00T	0.00T	0.0	0.0	0.03	0.0	0.04	0.0	0.16	0.00T	15	0.0	0.13	0.00T	0.00T	0.0	0.03	0.0	0.04	0.0	0.16	0.00T	0.00T
16	0.00T	0.01	0.00T	0.13	0.0	0.00T	0.00T	0.00T	0.00T	0.00T	0.05	0.06	16	0.00T	0.01	0.00T	0.13	0.0	0.00T	0.00T	0.00T	0.00T	0.05	0.06	0.01
17	0.02	0.05	0.03	0.02	0.01	0.00T	0.0	0.00T	0.0	0.00T	0.01	0.60	17	0.02	0.05	0.03	0.02	0.01	0.00T	0.0	0.00T	0.0	0.00T	0.01	0.60
18	0.71	0.00T	0.37	0.00T	0.00T	0.00T	0.00T	0.00T	0.00T	0.00T	0.09	0.17	18	0.71	0.00T	0.37	0.00T	0.00T	0.00T	0.00T	0.00T	0.00T	0.09	0.17	0.00T
19	0.00T	0.0	0.00T	0.0	0.06	0.0	0.0	0.0	0.09	0.01	0.64	0.24	19	0.00T	0.0	0.00T	0.0	0.06	0.0	0.0	0.09	0.01	0.64	0.24	0.00T
20	0.13	0.01	0.00T	0.00T	0.08	0.00T	0.00T	0.02	0.0	0.01	0.00T	0.01	20	0.13	0.01	0.00T	0.00T	0.08	0.00T	0.02	0.0	0.01	0.00T	0.01	0.00T
21	0.19	0.01	0.0	0.25	0.32	0.0	0.02	0.00T	0.00T	0.01	0.00T	0.00T	21	0.19	0.01	0.0	0.25	0.32	0.0	0.02	0.00T	0.00T	0.01	0.00T	0.00T
22	0.81	0.10	0.01	0.00T	0.01	0.01	0.0	0.0	0.00T	0.00T	0.00T	0.20	22	0.81	0.10	0.01	0.00T	0.01	0.01	0.0	0.0	0.00T	0.00T	0.00T	0.20
23	0.26	0.17	0.02	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.00T	0.0	0.12	23	0.26	0.17	0.02	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.12	0.00T
24	0.00T	0.05	0.07	0.00T	0.00T	0.0	0.0	0.0	0.04	0.0	0.00T	0.09	24	0.00T	0.05	0.07	0.00T	0.00T	0.0	0.0	0.0	0.04	0.0	0.00T	0.09
25	0.00T	0.00T	0.17	0.01	0.0	0.03	0.0	0.0	0.00T	0.00T	0.06	0.00T	25	0.00T	0.00T	0.17	0.01	0.0	0.03	0.0	0.0	0.00T	0.00T	0.06	0.00T
26	0.02	0.19	0.03	0.0	0.0	0.0	0.0	0.0	0.38	0.01	0.39	0.00T	26	0.02	0.19	0.03	0.0	0.0	0.0	0.0	0.38	0.01	0.39	0.00T	0.00T
27	0.06	0.05	0.00T	0.0	0.0	0.0	0.0	0.27	0.00T	0.00T	0.02	0.02	27	0.06	0.05	0.00T	0.0	0.0	0.0	0.0	0.27	0.00T	0.00T	0.02	0.02
28	0.00T	0.54	0.01	0.00T	0.0	0.0	0.0	0.0	0.0	0.08	0.00T	0.04	28	0.00T	0.54	0.01	0.00T	0.0	0.0	0.0	0.0	0.08	0.00T	0.04	0.00T
29	0.00T	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.02	0.00T	0.00T	0.00T	29	0.00T	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.02	0.00T	0.00T	0.00T
30	0.00T	0.0	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.00T	0.00T	0.00T	0.04	30	0.00T	0.0	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.00T	0.00T	0.04	0.00T
31	0.03	0.00T	0.00T	0.00T	0.00T	0.00T	0.0	0.01	0.0	0.0	0.18	0.18	31	0.03	0.00T	0.00T	0.00T	0.00T	0.00T	0.0	0.01	0.0	0.0	0.18	0.18
TOTAL												2.68	TOTAL												2.57
STA AV												1.65	STA AV												1.57

NOTES: Values are Thiessen weighted average amounts from 45 shielded recording gages. STA AV does not apply to shielded rain gage records.

1972 MEAN DAILY DISCHARGE (cfs)													REYNOLDS, IDAHO WATERSHED #1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	6.84	26.74	73.88	87.74	32.32	68.24	12.61	3.46	1.36	2.68	5.03	6.96	1	6.84	26.74	73.88	87.74	32.32	68.24	12.61	3.46	1.36	2.68	5.03	6.96
2	6.69	16.53	476.65	120.89	33.29	61.60	11.66	3.38	1.38	2.61	5.11	6.77	2	6.69	16.53	476.65	120.89	33.29	61.60	11.66	3.38	1.38	2.61	5.11	6.77
3	6.69	19.73	349.69	99.99	39.40	62.57	10.70	3.59	1.34	2.60	5.18	6.41	3	6.69	19.73	349.69	99.99	39.40	62.57	10.70	3.59	1.34	2.60	5.18	6.41
4	6.69	31.60	177.40	115.48	50.20	62.83	9.62	2.90	1.29	2.63	7.22	5.80	4	6.69	31.60	177.40	115.48	50.20	62.83	9.62	2.90	1.29	2.63	7.22	5.80
5	13.32	29.70	174.28	136.74	57.81	58.21	8.91	2.57	2.34	2.67	7.02	5.10	5	13.32	29.70	174.28	136.74	57.81	58.21	8.91	2.57	2.34	2.67	7.02	5.10
6	13.61	15.55	186.46	133.24	62.32	62.77	7.52	2.40	1.39	2.68	5.80	4.33	6	13.61	15.55	186.46	133.24	62.32	62.77	7.52	2.40	1.39	2.68	5.80	4.33
7	13.26	10.29	123.73	106.67	67.61	82.56	5.78	2.30	1.26	2.56	5.54	3.63	7	13.26	10.29	123.73	106.67	67.61	82.56	5.78	2.30	1.26	2.56	5.54	3.63
8	12.34	15.91	111.71	104.36	67.52	100.77	4.91	2.38	1.25	2.29	5.80	3.04	8	12.34	15.91	111.71	104.36	67.52	100.77	4.91	2.38	1.25	2.29	5.80	3.04
9	11.67	23.08	154.74	98.63	68.18	113.23	4.85	2.54	1.29	2.36	5.56	2.55	9	11.67	23.08	154.74	98.63	68.18	113.23	4.85	2.54	1.29	2.36	5.56	2.55
10	11.65	20.34	204.60	96.55	67.76	108.17	4.94	2.58	1.53	2.49	5.61	2.18	10	11.65	20.34	204.60	96.55	67.76	108.17	4.94	2.58	1.53	2.49	5.61	2.18
11	14.85	8.36	185.37	96.36	66.63	76.58	4.89	2.67	2.06	2.56	5.80	1.88	11	14.85	8.36	185.37	96.36	66.63	76.58	4.89	2.67	2.06	2.56	5.80	1.88
12	14.70	10.49	173.24	91.42	67.43	67.29	5.62	2.67	1.98	2.68	5.60	1.66	12	14.70	10.49	173.24	91.42	67.43	67.29	5.62	2.67	1.98	2.68	5.60	1.66
13	10.19	19.84	176.81	69.38	68.18	54.66	5.57	2.76	1.95	2.72	5.57	1.56	13	10.19	19.84	176.81	69.38	68.18	54.66	5.57	2.76	1.95	2.72	5.57	1.56
14	9.73	16.28	159.73	75.01	70.41	50.20	4.79	3.07	2.17	2.83	5.90	1.47	14	9.73	16.28	159.73	75.01	70.41	50.20	4.79	3.07	2.17	2.83	5.90	1.47
15	12.08	22.99	151.27	63.72	78.07	44.68	4.59	3.23	2.08	3.42	5.94	1.44	15	12.08	22.99	151.27	63.72	78.07	44.68	4.59	3.23	2.08	3.42	5.94	1.44
16	12.07	24.71	163.28	56.77	80.12	39.71	4.70	3.09	2.15	3.62	5.97	2.64	16	12.07	24.71	163.28	56.77	80.12	39.71	4.70	3.09	2.15	3.62	5.97	2.64
17	22.07	48.03	189.03	50.80	78.83	35.43	4.60	3.06	2.07	3.80	6.07	23.59	17	22.07	48.03	189.03	50.80	78.83	35.43	4.60	3.06	2.07	3.80	6.07	23.59
18	234.19	39.27	196.57	47.70	73.97	35.14	4.78	2.85	2.02	4.21	6.13	36.37	18	234.19	39.27	196.57	47.70	73.97	35.14	4.78	2.85	2.02	4.21	6.13	36.37
19	136.40	36.15	145.51	85.82	72.88	32.11	4.65	2.95	1.51	3.38	7.38	63.04	19	136.40	36.15	145.51	85.82	72.88	32.11	4.65	2.95	1.51	3.38	7.38	63.04
20	112.10	48.14	145.51	39.48	73.53	29.89	4.37	2.38	1.84	10.09	6.37	39.40	20	112.10	48.14	145.51	39.48	73.53	29.89	4.37	2.38	1.84	10.09	6.37	39.40
21	64.37	47.94	152.04	40.12	76.45	26.31	4.65	2.03	1.77	6.13	5.22	30.74	21	64.37	47.94	152.04	40.12	76.45	26.31	4.65	2.03	1.77	6.13	5.22	30.74
22	320.50	32.71	162.35	73.77	61.47	24.88	4.88	1.24	1.72	5.51	4.90	31.5	22	320.50	32.71	162.35	73.77	61.47	24.88	4.88	1.24	1.72	5.51	4.90	31.5
23	207.88	36.75	153.86	34.03	67.32	23.88	4.66	1.07	1.66	5.17	4.85	23.72	23	207.88	36.75	153.86	34.03	67.32	23.88	4.66	1.07	1.66	5.17	4.85	23.72
24	83.21	31.96	135.08	36.56	70.48	23.62	3.76	1.04	1.77	5.06	5.55	27.25	24	83.21	31.96	135.08	36.56	70.48	23.62	3.76	1.04	1.77	5.06	5.55	27.25
25	61.20	25.55	137.48	35.51	66.74	24.35	3.28	1.05	1.83	5.02	5.76	19.96	25	61.20	25.55	137.48	35.51	66.74	24.35	3.28	1.05	1.83	5.02	5.76	19.96
26	44.43	42.25	101.79	35.12	61.60	21.87	3.16	1.08	2.10	4.97	15.40	18.30	26	44.43	42.25	101.79	35.12	61.60	21.87	3.16	1.08	2.10	4.97	15.40	18.30
27	27.11	114.94	78.53	36.31	61.60	20.54	3.08	0.95	2.31	4.80	11.88	17.18	27	27.11	114.94	78.53	36.31	61.60	20.54	3.08	0.95	2.31	4.80	11.88	17.18
28	20.49	351.86	81.02	34.43	61.60	17.10	3.30	0.92	2.50	5.87	9.03	15.68	28	20.49	351.86	81.02	34.43	61.60	17.10	3.30	0.92	2.50	5.87	9.03	15.68
29	18.56	221.26	73.30	36.68	51.70	17.10	3.30	1.17	2.63	5.87	9.03	15.68	29	18.56	221.26	73.30	36.68	51.70	17.10	3.30	1.17	2.63	5.87	9.03	15.68
30	16.29	73.30	32.88	72.79	15.23	2.78	1.38	2.66	4.45	7.51	10.44		30	16.29	73.30	32.88	72.79	15.23	2.78	1.38	2.66	4.45	7.51	10.44	
31	18.84	75.21		72.79			2.58	1.30		4.62	12.01		31	18.84	75.21		72.79			2.58	1.30		4.62	12.01	
MEAN	50.45	48.31	160.45	69.81	65.43	48.61	5.45	2.35	1.85	3.95	6.57	18.08	MEAN	50.45	48.31	160.45	69.81	65.43	48.61	5.45	2.35	1.85	3.95	6.57	18.08
INCHES	0.645	0.577	2.050	0.863	0.836	0.601	0.070	0.029	0.023	0.050	0.081	0.180	INCHES	0.645	0.577	2.050	0.863	0.836	0.601	0.070	0.029	0.023	0.050	0.081	0.180
STA A	0.534	0.318	1.485	0.571	0.612	0.322	0.042	0.024	0.015	0.026	0.052	0.222	STA A	0.534	0.318	1.485	0.571	0.612	0.322	0.042	0.024	0.015	0.026	0.052	0.222

1972 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)								
PRECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF MARCH 1 - 5, 1972											
EG 106X36											
3- 1	0.0	0.023	3- 1	1615	0.0	0.0	3- 1	1800	69.216	0.0	
				1729	0.0568	0.07		2100	65.867	0.0035	
				1900	0.0198	0.10		2400	76.306	0.0071	
				2050	0.0218	0.14	3- 2	30	145.255	0.0081	
				2200	0.0857	0.24		200	247.327	0.0131	
WATERSHED CONDITIONS:											
Event preceded by approximately .80 inches of rain on 2/28/72. It is combined snowmelt and rain event.											
			3- 2	2247	0.1404	0.35		230	395.230	0.0159	
				2335	0.2125	0.52		300	425.087	0.0194	
				2400	0.1440	0.58		330	487.774	0.0233	
				15	0.1200	0.61		400	549.239	0.0278	
				105	0.0720	0.67		430	584.389	0.0327	
				210	0.1200	0.80		500	592.324	0.0377	
				340	0.1400	1.01		530	578.118	0.0427	
				430	0.0840	1.08		600	531.746	0.0475	
				635	0.0	1.08		630	489.093	0.0519	
				740	0.0185	1.10		700	449.860	0.0559	
				1030	0.0	1.10		800	406.035	0.0633	
				1125	0.0218	1.12		1000	384.712	0.0768	
				1235	0.0600	1.19		1200	400.596	0.0903	
				1328	0.0226	1.21		1300	400.596	0.0972	
				1340	0.0	1.21		1330	440.257	0.1008	
				1430	0.0960	1.29		1400	467.173	0.1047	
				1535	0.1477	1.45		1500	487.774	0.1129	
				1625	0.0840	1.52		1530	514.811	0.1172	
				1810	0.0	1.52		1600	543.344	0.1218	
				1925	0.0320	1.56		1630	576.562	0.1266	
			3- 3	25	0.0	1.56		1700	615.118	0.1317	
				100	0.1200	1.63		1730	650.967	0.1371	
				145	0.0533	1.70		1800	677.844	0.1428	
								1830	672.381	0.1486	
								1900	654.488	0.1543	
								1950	616.780	0.1634	
								2030	603.614	0.1704	
								2130	561.218	0.1804	
								2230	534.622	0.1898	
								2300	530.313	0.1944	
								2340	540.420	0.2005	
								2400	531.746	0.2036	
							3- 3	10	520.395	0.2051	
								30	531.746	0.2081	
								130	506.545	0.2170	
								215	506.545	0.2235	
								330	528.885	0.2346	
								400	528.885	0.2352	
								555	501.110	0.2561	
								615	513.424	0.2590	
								645	489.093	0.2633	
								700	493.065	0.2654	
								800	453.514	0.2736	
								830	432.022	0.2774	
								900	411.549	0.2810	
								1000	327.157	0.2873	
								1030	298.809	0.2900	
								1330	289.666	0.3052	
								1700	247.327	0.3213	
								2100	209.246	0.3370	
								2230	209.246	0.3424	
							3- 4	2400	202.177	0.3477	
								600	169.100	0.3668	
								1000	169.100	0.3784	
								1200	175.382	0.3843	
								1700	188.517	0.4000	
								2100	169.100	0.4122	
								2400	162.872	0.4208	
							3- 5	800	139.762	0.4416	

NOTES: To convert CFS to IN/HR, multiply by 0.00001719.



EVENT OF MARCH 1 - 5, 1972
REYNOLDS, IDAHO WATERSHED W-1 (036068)

LOCATION: Owyhee County, Idaho; 38 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.
Lat. 43 deg. 15 min. 21 sec. N.; Long. 116 deg. 45 min. 10 sec. W.

AREA: 8990.00 acres 14.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)															REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1972	P	3.48	1.60	2.67	1.54	0.43	3.25	0.05	0.12	1.29	1.30	2.70	3.07	21.50															
	Q	1.141	0.800	1.831	0.517	0.238	0.196	0.037	0.018	0.030	0.065	0.113	0.255	5.242															
STA AV	P	4.07	1.52	2.15	1.77	1.18	2.46	0.20	0.86	1.25	1.64	2.67	2.45	22.23															
	Q	0.857	0.413	0.578	0.442	0.293	0.142	0.028	0.038	0.023	0.048	0.091	0.173	3.125															
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge				Maximum Volume for Selected Time Interval																							
		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days															
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.														
1972		1-18	0.022	1-18	0.021	1-18	0.041	1-18	0.091	3-2	0.146	3-2	0.281	3-2	0.445	2-28	1.005												
MAXIMUMS FOR PERIOD OF RECORD																													
		8-23	0.073	8-23	0.044	8-23	0.056	1-20	0.115	1-28	0.208	1-28	0.379	1-28	0.766	1-28	1.495												
		1965		1965		1965		1969		1965		1965		1965		1965													

NOTES: Watershed conditions: Predominantly sagebrush rangeland, 59%; irrigated pasture and hay crops, 1%. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1246, p. 68-2-7. Records began 1963. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 9 rain gages. Station average precipitation amounts are based on 1968-72 data. Station average runoff amounts are based on record period (1963-72). For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1972		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)											
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.00T	0.02	0.60	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
2	0.01	0.0	0.78	0.44	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.00T	0.0					
3	0.00T	0.0	0.11	0.01	0.0	0.03	0.00T	0.0	0.0	0.0	0.0	0.06	0.62					
4	0.01	0.0	0.0	0.00T	0.0	0.00T	0.0	0.0	0.0	0.0	0.35	0.02	0.0					
5	0.0	0.01	0.0	0.001	0.0	0.0	0.0	0.0	0.32	0.0	0.02	0.0	0.0					
6	0.00T	0.05	0.0	0.0	0.02	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.11					
7	0.02	0.00T	0.0	0.00T	0.00T	0.78	0.0	0.0	0.0	0.0	0.03	0.02	0.0					
8	0.00T	0.0	0.00T	0.0	0.00T	0.86	0.0	0.0	0.0	0.15	0.02	0.0	0.0					
9	0.01	0.00T	0.0	0.0	0.0	0.55	0.0	0.00T	0.0	0.23	0.0	0.0	0.0					
10	0.01	0.0	0.00T	0.0	0.0	0.35	0.0	0.00T	0.0	0.03	0.01	0.0	0.0					
11	0.01	0.00T	0.0	0.20	0.00T	0.00T	0.0	0.00T	0.25	0.04	0.03	0.01	0.0					
12	0.70	0.00T	0.01	0.22	0.0	0.0	0.0	0.0	0.01	0.00T	0.00T	0.00T	0.21					
13	0.02	0.16	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.00T	0.00T					
14	0.0	0.16	0.01	0.0	0.0	0.01	0.0	0.09	0.0	0.00T	0.07	0.0	0.0					
15	0.0	0.10	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.27	0.0	0.00T	0.00T					
16	0.0	0.00T	0.0	0.31	0.0	0.0	0.00T	0.0	0.0	0.0	0.03	0.07	0.01					
17	0.09	0.00T	0.00T	0.05	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.60					
18	0.99	0.00T	0.64	0.0	0.00T	0.00T	0.0	0.0	0.0	0.0	0.23	0.16	0.0					
19	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.01	0.00T	0.60	0.92	0.28	0.0					
20	0.24	0.0	0.0	0.01	0.04	0.0	0.00T	0.0	0.0	0.01	0.00T	0.01	0.0					
21	0.13	0.02	0.0	0.23	0.24	0.0	0.04	0.0	0.03	0.0	0.01	0.01	0.0					
22	0.57	0.15	0.01	0.0	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.00T	0.00T	0.25					
23	0.54	0.14	0.02	0.0	0.0	0.0	0.0	0.0	0.00T	0.00T	0.0	0.16	0.0					
24	0.01	0.00T	0.11	0.00T	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.12	0.0					
25	0.01	0.0	0.29	0.01	0.0	0.08	0.0	0.0	0.0	0.00T	0.05	0.00T	0.00T					
26	0.03	0.24	0.04	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.67	0.00T	0.0					
27	0.13	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.01	0.0	0.0	0.11					
28	0.0	0.43	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.14	0.0					
29	0.0	0.01	0.0	0.00T	0.0	0.0	0.0	0.0	0.02	0.0	0.00T	0.00T	0.0					
30	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.00T	0.0					
31	0.03	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0					
TOTAL		3.48	1.60	2.67	1.54	0.43	3.25	0.05	0.12	1.29	1.30	2.70	3.07					
STA AV		4.07	1.52	2.15	1.77	1.18	2.46	0.20	0.86	1.25	1.64	2.67	2.45					

NOTES: Values are Thiessen weighted average 'Actual' amounts from 9 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. B. Basch, 'Computing Actual Precipitation', Proceedings WMO-IBS Symposium, Oslo, Norway, August, 1972. The equation used is: $\log_e (U/S) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 5 yr (1968-72) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1972 DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.00T	0.01	0.44	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.01	0.0	0.58	0.39	0.0	0.00T	0.0	0.0	0.0	0.0	0.05	0.0				
3	0.00T	0.0	0.07	0.01	0.0	0.03	0.00T	0.0	0.0	0.0	0.05	0.35				
4	0.01	0.0	0.0	0.00T	0.0	0.00T	0.0	0.0	0.0	0.0	0.30	0.01				
5	0.0	0.01	0.0	0.00T	0.0	0.0	0.0	0.0	0.27	0.0	0.02	0.0				
6	0.00T	0.05	0.0	0.0	0.02	0.15	0.0	0.0	0.0	0.0	0.0	0.07				
7	0.01	0.00T	0.0	0.00T	0.00T	0.75	0.0	0.0	0.0	0.0	0.03	0.01				
8	0.00T	0.00T	0.0	0.0	0.00T	0.81	0.0	0.0	0.0	0.0	0.13	0.01				
9	0.00T	0.00T	0.0	0.0	0.0	0.89	0.0	0.00T	0.0	0.20	0.0	0.0				
10	0.00T	0.0	0.00T	0.0	0.0	0.30	0.0	0.00T	0.0	0.02	0.00T	0.0				
11	0.00T	0.00T	0.0	0.15	0.00T	0.00T	0.0	0.00T	0.21	0.04	0.02	0.01				
12	0.36	0.00T	0.01	0.17	0.0	0.0	0.0	0.0	0.01	0.00T	0.00T	0.14				
13	0.11	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.00T	0.00T				
14	0.0	0.11	0.01	0.0	0.0	0.01	0.0	0.09	0.0	0.00T	0.05	0.0				
15	0.0	0.07	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.24	0.0	0.00T				
16	0.0	0.00T	0.0	0.23	0.0	0.00T	0.0	0.0	0.0	0.03	0.06	0.01				
17	0.00T	0.06	0.0	0.03	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.53				
18	0.90	0.00T	0.54	0.0	0.00T	0.00T	0.0	0.0	0.0	0.0	0.15	0.14				
19	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.01	0.00T	0.57	0.65	0.21				
20	0.22	0.0	0.0	0.00T	0.03	0.0	0.00T	0.0	0.0	0.01	0.00T	0.00T				
21	0.10	0.01	0.0	0.19	0.20	0.0	0.04	0.0	0.02	0.0	0.00T	0.01				
22	0.47	0.06	0.00T	0.0	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.00T	0.20				
23	0.45	0.06	0.02	0.0	0.0	0.0	0.0	0.0	0.00T	0.00T	0.0	0.13				
24	0.01	0.06	0.00T	0.00T	0.0	0.0	0.03	0.0	0.03	0.0	0.05	0.0				
25	0.01	0.0	0.19	0.01	0.0	0.08	0.0	0.0	0.0	0.00T	0.05	0.00T				
26	0.03	0.18	0.02	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.58	0.00T				
27	0.07	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.01	0.05	0.0				
28	0.0	0.32	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.06				
29	0.0	0.01	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.02	0.00T	0.0				
30	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.00T				
31	0.01	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10				
TOTAL STA AV																
	2.70	1.08	1.58	1.25	0.37	3.06	0.05	0.12	1.10	1.19	2.12	2.12				

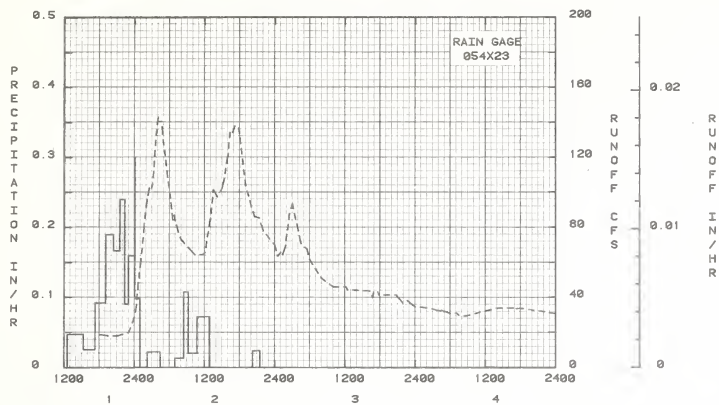
NOTES: Values are Thiessen weighted average amounts from 9 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1972 DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00T	0.01	0.51	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.01	0.0	0.67	0.42	0.0	0.00T	0.0	0.0	0.0	0.0	0.00T	
2	0.01	0.0	0.67	0.42	0.0	0.00T	0.0	0.0	0.0	0.0	0.06	0.48	3	0.00T	0.0	0.09	0.01	0.0	0.03	0.00T	0.0	0.0	0.06	0.48	
3	0.00T	0.0	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.02	4	0.01	0.0	0.0	0.00T	0.0	0.00T	0.0	0.0	0.0	0.32	0.02	
4	0.01	0.0	0.0	0.00T	0.0	0.00T	0.0	0.0	0.0	0.0	0.02	0.0	5	0.0	0.01	0.0	0.0	0.00T	0.0	0.0	0.29	0.0	0.02	0.0	
5	0.0	0.01	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.00T	0.05	0.0	0.0	0.02	0.15	0.0	0.0	0.0	0.0	0.09	
6	0.00T	0.05	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.09	7	0.01	0.00T	0.0	0.00T	0.00T	0.77	0.0	0.0	0.0	0.04	0.02	
7	0.01	0.00T	0.0	0.00T	0.00T	0.77	0.0	0.0	0.0	0.0	0.0	0.02	8	0.01	0.00T	0.0	0.0	0.00T	0.83	0.0	0.0	0.0	0.14	0.02	
8	0.01	0.00T	0.0	0.0	0.00T	0.83	0.0	0.0	0.0	0.0	0.0	0.02	9	0.01	0.00T	0.0	0.0	0.0	0.93	0.0	0.00T	0.0	0.22	0.0	
9	0.01	0.00T	0.0	0.0	0.0	0.93	0.0	0.00T	0.0	0.22	0.0	0.0	10	0.01	0.0	0.00T	0.0	0.33	0.0	0.00T	0.0	0.03	0.01	0.0	
10	0.01	0.0	0.00T	0.0	0.0	0.33	0.0	0.00T	0.0	0.03	0.01	0.0	11	0.01	0.00T	0.0	0.18	0.00T	0.00T	0.0	0.00T	0.23	0.04	0.02	
11	0.01	0.00T	0.0	0.18	0.00T	0.00T	0.0	0.00T	0.23	0.04	0.02	0.01	12	0.52	0.00T	0.01	0.19	0.0	0.0	0.0	0.01	0.00T	0.00T	0.19	
12	0.52	0.00T	0.01	0.19	0.0	0.0	0.0	0.0	0.01	0.00T	0.00T	0.19	13	0.02	0.13	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.00T	0.00T	
13	0.02	0.13	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	14	0.0	0.14	0.01	0.0	0.0	0.01	0.0	0.09	0.0	0.00T	0.00T	
14	0.0	0.14	0.01	0.0	0.0	0.01	0.0	0.05	0.0	0.00T	0.06	0.0	15	0.0	0.09	0.0	0.0	0.0	0.01	0.0	0.0	0.25	0.0	0.00T	
15	0.0	0.09	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.00T	16	0.0	0.00T	0.0	0.27	0.0	0.00T	0.0	0.0	0.03	0.07	0.01	
16	0.0	0.00T	0.0	0.27	0.0	0.00T	0.0	0.0	0.0	0.0	0.07	0.01	17	0.00T	0.08	0.00T	0.04	0.03	0.0	0.0	0.0	0.0	0.01	0.57	
17	0.00T	0.08	0.00T	0.04	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.57	18	0.95	0.00T	0.55	0.0	0.00T	0.00T	0.0	0.0	0.0	0.19	0.15	
18	0.95	0.00T	0.55	0.0	0.00T	0.00T	0.0	0.0	0.0	0.0	0.19	0.15	19	0.0	0.0	0.0	0.0	0.08	0.0	0.01	0.00T	0.58	0.19	0.26	
19	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.01	0.00T	0.58	0.26	20	0.23	0.0	0.0	0.01	0.03	0.0	0.00T	0.0	0.01	0.00T	0.01	
20	0.23	0.0	0.0	0.01	0.03	0.0	0.00T	0.0	0.0	0.0	0.00T	0.01	21	0.12	0.01	0.0	0.21	0.22	0.0	0.08	0.0	0.02	0.0	0.01	
21	0.12	0.01	0.0	0.21	0.22	0.0	0.08	0.0																	

1972 SELECTED EUROFF EVENT			REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)							
ANTICIPED CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Euroff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MARCH 1 - 5, 1972 (CONTINUED)										
							3- 3	104	86.227	0.3058
								230	101.032	0.3206
								308	96.237	0.3275
								518	79.401	0.3485
								750	73.731	0.3699
								1026	66.110	0.3900
								1158	58.355	0.4005
								1458	51.853	0.4187
								1756	53.113	0.4359
								2056	50.001	0.4530
								2400	46.431	0.4693
								256	43.035	0.4838
							3- 4	600	40.335	0.4979
								858	38.258	0.5107
								1500	37.750	0.5360
								1758	36.748	0.5482
								2058	36.748	0.5604
								2400	33.381	0.5721

1972 SELKIRK RUNOFF EVENT				REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)							
ANTICIPATED CONDITIONS				RAINFALL				RUNCFF			
Date	Rainfall	Runoff		Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)		Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 8 - 11, 1972											
RG 023101				RG 023101							
6- 8	0.0	0.002	6- 8	1410		0.0	0.0	6- 8	910	1.466	0.0
				1511		0.4033	0.41		922	1.814	0.0000
				1630		0.0	0.41		1571	0.9017	
				1730		0.0400	0.45		1734	3.648	0.0018
				1747		1.1294	0.77		1748	7.376	0.0019
WATERSHED CONDITIONS:				1805		0.1000	0.80		1758	6.223	0.0020
Event preceded by approxi-				1906		0.0	0.80		1812	5.869	0.0022
mately .70 inches of rain on				1938		0.0562	0.83		1814	7.512	0.0022
6/7/72.				402		0.0	0.83		1822	7.376	0.0023
			6- 9	436		0.0176	0.84		1824	12.351	0.0024
				547		0.0085	0.85		1828	18.205	0.0025
				925		0.0	0.85		1844	14.342	0.0030
				1017		0.0115	0.86		1902	9.453	0.0033
				1132		0.0	0.86		1910	9.453	0.0035
				1249		0.3351	1.29		1936	7.933	0.0039
				1342		0.0113	1.30		2014	6.103	0.0044
				1441		0.0	1.30		2024	8.222	0.0045
				1451		1.5000	1.55		2040	8.076	0.0046
				1713		0.0211	1.60		2210	5.755	0.0059
				2004		0.0	1.60		2400	4.702	0.0070
				2033		0.0414	1.62	6- 9	312	3.728	0.0085
				2133		0.0500	1.67		758	3.343	0.0103
				2334		0.0	1.67		906	2.664	0.0107
				2400		0.0231	1.68		1230	2.540	0.0117
			6-10	22		0.0545	1.70		1300	3.127	0.0118
				44		0.1636	1.76		1304	45.853	0.0120
				413		0.0	1.76		1320	24.797	0.0132
				439		0.0692	1.79		1332	24.660	0.0139
				547		0.0088	1.80		1350	18.523	0.0146
				605		0.0	1.80		1400	17.588	0.0149
				657		0.2308	2.00		1416	14.585	0.0154
				855		0.0153	2.03		1430	16.142	0.0158
				942		0.0128	2.04		1444	14.832	0.0162
									1454	16.704	0.0165
									1456	26.556	0.0165
									1504	26.919	0.0169
									1508	59.033	0.0173
									1518	94.362	0.0187
									1530	86.227	0.0207
									1552	59.033	0.0236
									1608	43.589	0.0251
									1634	32.003	0.0269
									1730	21.998	0.0297
									1746	19.510	0.0303
									1758	16.704	0.0307
									1908	11.370	0.0325
									2114	8.369	0.0348
									2400	7.651	0.0372
								6-10	26	8.222	0.0376
									336	7.376	0.0403
									406	8.076	0.0408
									610	6.718	0.0425
									806	8.669	0.0441
									854	10.462	0.0449
									908	15.084	0.0453
									954	15.084	0.0466
									1026	12.557	0.0474
									1200	9.615	0.0493
									1556	7.651	0.0530
									2400	6.223	0.0592
								6-11	944	5.531	0.0655
									1720	4.605	0.0698

NOTES: To convert CFS to IN/HR, multiply by .0001103.



EVENT OF JUNE 8 - 11, 1972
REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)

REYNOLDS, IDAHO SNACKS CREEK WATERSHED (046084)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.
Lat. 43 deg. 14 min. 42 sec. S.; Long. 116 deg. 45 min. 30 sec. W.

AREA: 7846.00 acres 12.26 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO SNACKS CREEK WATERSHED (046084)																			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																				
1972 P	2.61	1.37	2.34	1.39	0.46	2.75	0.08	0.18	1.61	1.18	2.06	2.96	19.00																				
Q	0.925	0.760	1.967	0.561	0.146	0.133	0.024	0.003	0.002	0.012	0.062	0.227	4.821																				
STA AV P	3.50	1.27	1.84	1.42	0.93	2.17	0.19	0.87	1.11	1.37	2.21	2.19	19.07																				
Q	0.702	0.295	0.627	0.370	0.125	0.071	0.013	0.003	0.002	0.005	0.028	0.058	2.339																				
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																																	
Maximum Discharge													Maximum Volume for Selected Time Interval																				
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days																	
Date		Date		Vol.		Vol.		Vol.		Vol.		Vol.		Vol.		Vol.		Date		Date		Date		Date									
1972		3- 2		0.018		3- 2		0.018		3- 2		0.034		3- 2		0.088		3- 2		0.149		3- 2		0.282		3- 2		0.435		2-27		1.015	
MAXIMUMS FOR PERIOD OF RECORD																																	
1-21		0.039		1-21		0.037		1-20		0.069		1-20		0.183		1-20		0.294		1-20		0.457		1-20		0.649		2-27		1.015			
1969				1969				1969				1969				1969				1969				1969				1972					

NOTES: Watershed conditions: The watershed topography is steep, except in the lower valley, with numerous basalt outcrops at the higher elevations. 98% is sagebrush rangeland with a varying cover of sagebrush, bitterbrush, mountain mahogany and willow with a fair cover of forage plants such as cheatgrass, bluechew, wheatgrass, and Idaho fescue. 35% of area has a vegetative cover of 0-25%, 33% of the area has a vegetative cover of 26-50%, 18% of area has a vegetative cover of 51-75%, and 12% of the area has a vegetative cover of 76-100%. 2% of area is in pasture and hay crops which receives limited irrigation. For map of Watershed, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68-74. Records begun 1963. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 12 rain gages. Station average precipitation amounts are based on 1968-72 record period. Station average streamflow amounts are based on 1963-72. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles S.E. of watershed.

1972 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO SNACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.01	0.19	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	0.01	0.19	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.13	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00	0.13	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.01	0.05	0.00	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	17	0.01	0.05	0.00	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	
18	0.65	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18	0.65	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.04	0.02	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00	0.06	0.00	0.04	0.02	0.00	0.00	0.00	
20	0.16	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	20	0.16	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	
21	0.09	0.02	0.00	0.33	0.33	0.00	0.06	0.00	0.01	0.00	0.00	0.00	21	0.09	0.02	0.00	0.33	0.33	0.00	0.06	0.00	0.01	0.00	0.00	
22	0.64	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22	0.64	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	24	0.00	0.01	0.08	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	
25	0.01	0.00	0.15	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	25	0.01	0.00	0.15	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	
26	0.06	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	26	0.06	0.15	0.03	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	
27	0.09	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	27	0.09	0.03	0.01	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	
28	0.01	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28	0.01	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL	2.61	1.37	2.34	1.39	0.46	2.75	0.08	0.18	1.61	1.18	2.06	2.96		2.61	1.37	2.34	1.39	0.46	2.75	0.08	0.18	1.61	1.18	2.06	
STA AV	3.50	1.27	1.84	1.42	0.93	2.17	0.19	0.87	1.11	1.37	2.21	2.19		3.50	1.27	1.84	1.42	0.93	2.17	0.19	0.87	1.11	1.37	2.21	

NOTES: Values are Thiessen weighted average 'Actual' amounts from 12 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. H. Bason, "Computing Actual Precipitation", Proceedings of WHO-IBES Symposium, Gello, Norway, August, 1972. The equation used is: $\log_e (U/S) = \log_e (U/S) + 1.00$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 5 yr (1968-72) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

Cooperative Research Project of USDA and USDI and Idaho Agricultural Experiment Station

1972	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO HACKS CREEK WATERSHED (046084)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.01	0.52	0.06	0.0	0.0	0.00T	0.00T	0.0	0.00T	0.01	0.0	
2	0.00T	0.00T	0.65	0.29	0.0	0.00T	0.0	0.00T	0.0	0.0	0.0	0.00T	
3	0.0	0.0	0.06	0.00T	0.0	0.03	0.0	0.0	0.0	0.0	0.00T	0.38	
4	0.00T	0.0	0.0	0.01	0.0	0.00T	0.0	0.0	0.0	0.01	0.27	0.00T	
5	0.0	0.00T	0.00T	0.02	0.0	0.0	0.0	0.0	0.57	0.0	0.01	0.0	
6	0.00T	0.04	0.00T	0.01	0.00T	0.12	0.00T	0.0	0.0	0.0	0.0	0.08	
7	0.00T	0.00T	0.01	0.00T	0.01	0.62	0.00T	0.0	0.0	0.01	0.0	0.0	
8	0.00T	0.00T	0.00T	0.0	0.00T	0.45	0.0	0.0	0.0	0.01	0.07	0.02	
9	0.00T	0.00T	0.0	0.0	0.0	0.95	0.0	0.0	0.0	0.18	0.00T	0.0	
10	0.00T	0.0	0.00T	0.0	0.0	0.35	0.00T	0.00T	0.00T	0.04	0.01	0.0	
11	0.01	0.00T	0.00T	0.15	0.00T	0.00T	0.0	0.0	0.20	0.04	0.02	0.0	
12	0.22	0.00T	0.04	0.11	0.0	0.0	0.0	0.0	0.0	0.00T	0.01	0.15	
13	0.00T	0.12	0.06	0.00T	0.0	0.00T	0.00T	0.0	0.0	0.00T	0.00T	0.01	
14	0.0	0.05	0.00T	0.00T	0.03	0.00T	0.10	0.00T	0.10	0.01	0.03	0.00T	
15	0.0	0.07	0.0	0.0	0.0	0.01	0.0	0.02	0.0	0.23	0.00T	0.00T	
16	0.0	0.00T	0.0	0.16	0.0	0.00T	0.00T	0.0	0.01	0.03	0.04	0.00T	
17	0.00T	0.04	0.00T	0.02	0.03	0.0	0.0	0.00T	0.0	0.01	0.00T	0.45	
18	0.59	0.00T	0.46	0.0	0.00T	0.00T	0.00T	0.0	0.00T	0.0	0.10	0.16	
19	0.00T	0.0	0.0	0.0	0.06	0.0	0.0	0.04	0.02	0.49	0.43	0.27	
20	0.11	0.0	0.00T	0.00T	0.03	0.0	0.0	0.00T	0.0	0.03	0.00T	0.01	
21	0.07	0.01	0.0	0.30	0.30	0.0	0.06	0.0	0.01	0.0	0.00T	0.00T	
22	0.54	0.04	0.00T	0.0	0.00T	0.01	0.0	0.0	0.00T	0.00T	0.00T	0.18	
23	0.36	0.07	0.02	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.00T	0.0	0.10	
24	0.00T	0.00T	0.06	0.00T	0.0	0.0	0.0	0.0	0.04	0.0	0.00T	0.13	
25	0.00T	0.0	0.11	0.00T	0.0	0.07	0.0	0.0	0.0	0.00T	0.07	0.01	
26	0.05	0.12	0.02	0.0	0.0	0.0	0.0	0.0	0.36	0.00T	0.52	0.00T	
27	0.04	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.25	0.00T	0.00T	0.02	
28	0.0	0.36	0.02	0.00T	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.03	
29	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.00T	0.00T	
30	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.00T	0.02	
31	0.02	0.00T	0.00T	0.0	0.0	0.0	0.00T	0.00T	0.0	0.0	0.12		
TOTAL	2.04	1.00	2.05	1.14	0.43	2.68	0.08	0.18	1.46	1.11	1.61	2.12	
STA AV													

NOTES: Values are Thiessen weighted average amounts from 12 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1972	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO HACKS CREEK WATERSHED (046084)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.01	0.56	0.06	0.0	0.0	0.00T	0.00T	0.0	0.00T	0.01	0.0	
2	0.00T	0.00T	0.70	0.30	0.0	0.00T	0.0	0.00T	0.0	0.0	0.0	0.00T	
3	0.0	0.0	0.07	0.00T	0.0	0.03	0.0	0.0	0.0	0.0	0.00T	0.47	
4	0.00T	0.0	0.0	0.01	0.0	0.00T	0.0	0.0	0.0	0.01	0.30	0.01	
5	0.0	0.00T	0.00T	0.02	0.0	0.0	0.0	0.0	0.59	0.0	0.01	0.0	
6	0.00T	0.05	0.00T	0.01	0.00T	0.12	0.00T	0.0	0.0	0.0	0.0	0.11	
7	0.00T	0.00T	0.01	0.00T	0.01	0.64	0.00T	0.00T	0.0	0.0	0.01	0.03	
8	0.00T	0.00T	0.01	0.0	0.00T	0.45	0.0	0.0	0.0	0.01	0.07	0.03	
9	0.00T	0.00T	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.18	0.00T	0.0	
10	0.00T	0.0	0.00T	0.0	0.0	0.36	0.00T	0.00T	0.00T	0.05	0.01	0.0	
11	0.01	0.00T	0.00T	0.18	0.00T	0.00T	0.0	0.0	0.20	0.04	0.03	0.0	
12	0.30	0.00T	0.05	0.16	0.0	0.0	0.0	0.0	0.0	0.00T	0.01	0.24	
13	0.01	0.15	0.06	0.01	0.0	0.00T	0.00T	0.0	0.0	0.00T	0.00T	0.01	
14	0.0	0.11	0.00T	0.01	0.0	0.04	0.00T	0.10	0.00T	0.01	0.04	0.00T	
15	0.0	0.09	0.0	0.0	0.0	0.01	0.0	0.02	0.0	0.24	0.00T	0.00T	
16	0.0	0.00T	0.0	0.18	0.0	0.00T	0.00T	0.0	0.01	0.04	0.05	0.00T	
17	0.01	0.05	0.00T	0.02	0.03	0.0	0.0	0.00T	0.0	0.01	0.01	0.48	
18	0.62	0.00T	0.47	0.0	0.00T	0.00T	0.00T	0.0	0.00T	0.0	0.13	0.16	
19	0.00T	0.0	0.0	0.0	0.06	0.0	0.0	0.04	0.02	0.50	0.52	0.29	
20	0.13	0.00T	0.00T	0.00T	0.03	0.0	0.0	0.00T	0.0	0.03	0.00T	0.01	
21	0.08	0.02	0.0	0.31	0.32	0.0	0.06	0.0	0.01	0.0	0.00T	0.00T	
22	0.60	0.05	0.01	0.0	0.00T	0.01	0.0	0.0	0.00T	0.00T	0.00T	0.16	
23	0.00	0.08	0.02	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.00T	0.0	0.12	
24	0.00T	0.01	0.06	0.00T	0.0	0.0	0.0	0.0	0.04	0.0	0.00T	0.15	
25	0.00T	0.0	0.13	0.00T	0.0	0.07	0.0	0.0	0.0	0.00T	0.08	0.01	
26	0.06	0.14	0.02	0.0	0.0	0.0	0.0	0.0	0.40	0.00T	0.56	0.01	
27	0.06	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.28	0.00T	0.00T	0.02	
28	0.00T	0.41	0.02	0.00T	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.05	
29	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.00T	0.00T	
30	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.00T	0.03	
31	0.03	0.00T	0.00T	0.0	0.0	0.0	0.00T	0.00T	0.0	0.0	0.17		
TOTAL	2.35	1.22	2.20	1.27	0.45	2.73	0.08	0.18	1.56	1.15	1.85	2.55	
STA AV													

NOTES: Values are Thiessen weighted average amounts from 12 shielded recording gages. STA AV do not apply to shielded rain gage records.

1972	MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO HACKS CREEK WATERSHED (046084)											
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec				
1	1.438	4.009	19.015	6.679	1.727	0.768	0.406	0.048	0.015	0.023	0.333	0.737					
2	1.361	2.936	92.284	10.422	1.818	0.727	0.419	0.038	0.010	0.023	0.331	0.721					
3	1.113	3.344	51.695	8.054	1.722	0.655	0.406	0.038	0.009	0.023	0.331	0.818					
4	1.093	3.388	32.256	7.865	1.924	0.505	0.393	0.039	0.011	0.023	0.523	0.592					
5	1.287	3.377	31.774	8.025	2.057	0.593	0.393	0.032	0.030	0.023	0.474	0.361					
6	1.287	3.378	31.162	7.969	2.401	0.732	0.393	0.031	0.023	0.026	0.427	0.478					
7	1.308	3.384	24.947	7.987	2.119	0.742	0.393	0.026	0.010	0.030	0.465	0.775					
8	1.187	3.341	21.689	7.375	1.797	1.741	0.393	0.146	0.017	0.030	0.500	0.834					
9	1.147	3.188	21.908	7.028	1.959	10.102	0.380	0.082	0.018	0.034	0.473	0.801					
10	1.106	2.830	22.404	6.730	2.032	5.857	0.355	0.017	0.023	0.038	0.500	0.801					
11	1.405	2.761	21.458	6.799	1.978	2.654	0.343	0.008	0.026	0.038	0.528	0.817					
12	1.495	3.065	20.084	7.350	1.690	1.575	0.331	0.008	0.026	0.038	0.500	0.834					
13	1.073	4.830	21.215	6.964	1.712	1.556	0.331	0.010	0.023	0.038	0.486	0.867					
14	1.013	3.344	18.333	7.217	1.634	1.485	0.343	0.014	0.023	0.038	0.514	1.006					
15	1.082	5.573	17.613	6.735	1.525	1.263	0.331	0.014	0.023	0.047	0.500	1.210					
16	1.091	6.184	16.700	6.873	1.412	1.234	0.307	0.032	0.023	0.057	0.529	1.438					
17	1.916	14.634	16.373	5.681	1.418	1.099	0.296	0.016	0.023	0.062	0.571	2.915					
18	43.030	9.522	22.270	5.331	1.528	0.887	0.296	0.014	0.020	0.080	0.599	8.080					
19	31.120	9.775	17.664	4.914	1.746	0.851	0.263	0.015	0.017	0.246	0.847	13.495					
20	30.066	11.387	15.235	4.791	1.487	0.935	0.210	0.017	0.017	0.444	0.699	7.409					
21	28.975	9.757	13.751	6.418	1.659	0.894	0.152	0.014	0.017	0.217	0.542	3.695					
22	50.835	8.583	13.083	5.156	0.842	0.103	0.012	0.017	0.017	0.230	0.568	3.648					
23	32.988	7.421	12.302	4.957	1.289	0.839	0.086	0.015	0.017	0.222	0.538	2.861					
24	21.244	6.497	11.894	4.647	1.212	0.874	0.074	0.017	0.017	0.220	0.614	5.236					
25	13.005	5.826	12.143	4.705	1.169	0.944	0.068	0.016	0.017	0.254	0.732	3.068					
26	8.524	10.527	9.887	4.655	1.151	0.782	0.068	0.014	0.023	0.241	3.249	2.598					
27	5.962	20.487	9.101	4.561	1.091	0.667	0.071	0.016	0.026	0.232	1.363	2.392					
28	4.652	43.765	8.638	4.141	0.954	0.589	0.060	0.011	0.023	0.273	0.965	1.952					
29	4.462	33.610	7.778	3.880	0.737	0.462	0.058	0.011	0.023	0.296	0.900	1.111					
30	4.343		7.183	1.685	0.880	0.426	0.052	0.013	0.023	0.269	0.918	1.628					
31	4.242		6.872		0.848		0.052	0.011		0.288		1.683					
MEAN	9.837	8.644	20.912	6.161	1.557	1.457	0.252	0.028	0.020	0.132	0.681	2.415					
INCHES	0.925	0.760	1.967	0.561	0.146	0.133	0.024	0.003	0.002	0.012	0.062	0.227					
STA AV	0.702	0.295	0.627	0.370	0.125	0.071	0.013	0.003	0.002	0.005	0.028	0.098					

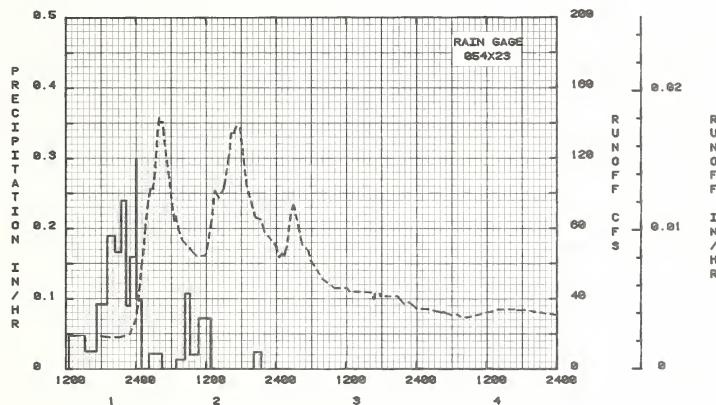
NOTES: To convert CFS to IN/DAY, multiply by 0.003034. STA AV amounts based on 1963-72 record period.

1972	SELECTED RUNOFF EVENT					REYNOLDS, IDAHO HACKS CREEK WATERSHED (046084)											
	PRECEDENT CONDITIONS					RAINFALL						RUNOFF					
	Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	Date	Time	Rate	Acc.		
	Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT CP MARCH 1 - 4, 1972																	
RG 054X23																	
3- 1	0.0	0.043	3- 1	1233	0.0	0.0	0.0	3- 1	1800	18.720	0.0						
				1517	0.0476	0.13			1930	18.063	0.0035						
				1716	0.0252	0.18			2100	18.063	0.0069						
				1906	0.0927	0.35			2200	19.054	0.0093						
				2025	0.1899	0.60			2300	20.081	0.0117						
WATERSHED CONDITIONS:																	
Event preceded by approximately 50 inches of rain on 2/28/72. It is a combined snowmelt and rain event.																	
				2130	0.1662	0.78			2400	28.757	0.0188						
				2220	0.2400	0.98			3- 2	20	35.917	0.0162					
				2300	0.0900	1.04			40	48.430	0.0180						
				2400	0.1600	1.20			100	59.156	0.0202						
			3- 2	4	0.3000	1.22			120	68.166	0.0229						
				59	0.0582	1.31			140	82.430	0.0261						
				213	0.0	1.31			200	92.646	0.0298						
				428	0.0222	1.36			220	99.566	0.0338						
				657	0.0	1.36			230	102.635	0.0359						
				826	0.0135	1.38			255	102.635	0.0413						
				916	0.1080	1.47			310	108.960	0.0447						
				1046	0.0200	1.50			340	133.137	0.0523						
				1250	0.0726	1.65			400	143.212	0.0582						
				2012	0.0	1.47			410	160.647	0.0611						
				2127	0.0240	1.68			440	140.647	0.0700						
									445	133.137	0.0715						
									580	108.960	0.0855						
									620	90.729	0.0939						
									635	84.229	0.0967						
									645	86.975	0.0985						
									730	77.189	0.1062						
									800	72.995	0.1110						
									1020	64.308	0.1312						
									1140	64.308	0.1421						
									1205	65.834	0.1455						

NOTES: To convert CFS to IN/HR, multiply by .00012640.

1972 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO BACKS CREEK WATERSHED (046084)						
ATmospheric CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)
EVENT OF MARCH 1 - 4, 1972 (CONTINUED)									
							3- 2	1300	85.137
								1330	101.605
								1410	97.555
								1500	102.635
								1520	107.889
								1600	122.379
								1620	134.369
								1645	134.369
								1710	136.113
								1750	136.858
								1900	103.672
								2000	91.684
								2030	86.053
								2120	85.137
								2200	78.047
							3- 3	2400	69.751
								30	63.555
								100	65.834
								120	64.308
								150	69.751
								230	87.904
								300	93.614
								400	78.047
								430	70.553
								530	67.382
								600	61.329
								800	50.978
								1000	45.968
								1210	45.968
								1230	44.177
								1615	43.550
								1645	39.630
								1655	43.009
								1740	43.009
								1750	41.297
								2045	41.297
								2150	36.953
								2240	38.009
								2400	34.400

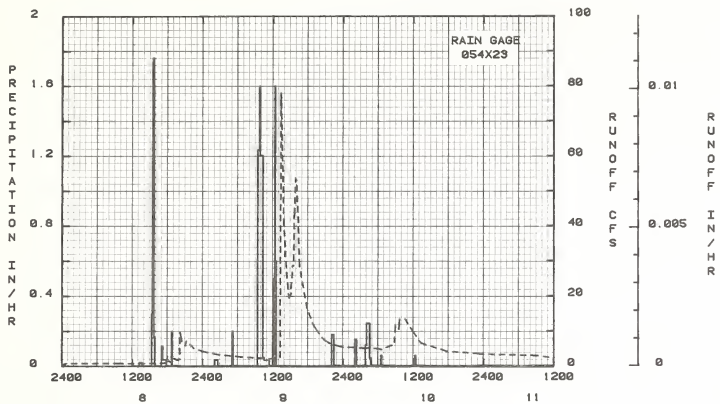
NOTES: To convert CFS to IN/HR, multiply by .00012640.



EVENT OF MARCH 1 - 4, 1972
REYNOLDS, IDAHO BACKS CREEK WATERSHED (046084)

1972 SELECTED RORCPF EVENT				BRYCECLDS, IDAREC HACHS CREEK WATERSHED (046084)							
ANTECEDENT CONDITIONS				RAINFALL				RORCPF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT CP JUNE 8 - 11, 1972											
RG 054X23											
6- 8	0.0	0.0	6- 8	1311	0.0	0.0	6- 8	20	0.615	0.0	
				1339	0.0214	0.01		23	0.38	0.000	
				1518	0.0	0.01		856	0.900	0.0009	
				1524	0.3000	0.04		1026	0.801	0.0011	
				1540	1.7625	0.51		1406	0.769	0.0014	
WATERSHED CONDITIONS:											
Event preceded by approximately .40 inches of rain on 6/7/72.											
				1551	0.1636	0.54		1744	0.867	0.0018	
				1657	0.0	0.54		1758	1.391	0.0019	
				1713	0.1125	0.57		1860	2.622	0.0019	
				1748	0.0343	0.59		1812	1.834	0.0019	
				1843	0.0	0.59		1832	1.189	0.0020	
				1849	0.2000	0.61		1842	2.897	0.0020	
			6- 9	206	0.0	0.61		1850	2.897	0.0021	
				240	0.0353	0.63		1912	2.035	0.0022	
				506	0.0	0.63		1946	1.665	0.0023	
				512	0.2000	0.65		1954	1.923	0.0023	
				921	0.0	0.65		2006	2.093	0.0024	
				939	1.2333	1.02		2010	9.670	0.0024	
				945	1.6000	1.18		2028	7.025	0.0028	
				947	1.5000	1.23		2104	5.886	0.0032	
				949	1.2000	1.27		2114	7.185	0.0034	
				959	1.2000	1.47		2230	5.040	0.0044	
				1017	1.2000	1.83		2400	4.158	0.0052	
				1030	0.0462	1.84	6- 9	256	3.211	0.0066	
				1124	0.0333	1.87		650	2.537	0.0080	
				1211	0.0	1.87		1134	2.035	0.0094	
				1217	0.5000	1.92		1234	2.152	0.0097	
				1223	1.6000	2.08		1314	2.537	0.0099	
				1227	0.4500	2.11		1320	78.047	0.0104	
				1231	0.6000	2.15		1352	40.181	0.0144	
				2206	0.0	2.15		1420	26.602	0.0163	
			6-10	2226	0.1800	2.21		1444	19.393	0.0175	
				203	0.0	2.21		1506	20.786	0.0184	
				219	0.1500	2.25		1520	28.757	0.0191	
				350	0.0	2.25		1532	28.757	0.0199	
				400	0.1200	2.27		1538	43.590	0.0203	
				432	0.2438	2.40		1550	53.614	0.0216	
				446	0.0429	2.41		1602	52.947	0.0229	
				628	0.0	2.41		1634	28.317	0.0257	
				638	0.0600	2.42		1750	16.489	0.0292	
				1214	0.0	2.42		1856	11.576	0.0312	
				1224	0.0600	2.43		1954	9.234	0.0325	
								2050	7.348	0.0334	
								2140	6.429	0.0342	
							6-10	2400	5.269	0.0359	
								155	5.269	0.0372	
								334	4.928	0.0382	
								426	5.154	0.0388	
								634	4.711	0.0401	
								820	5.886	0.0413	
								846	6.720	0.0417	
								856	11.576	0.0418	
								934	10.358	0.0427	
								940	13.353	0.0429	
								1032	13.353	0.0443	
								1158	9.670	0.0464	
								1318	6.429	0.0478	
								1748	4.101	0.0508	
								2400	3.293	0.0537	
							6-11	824	2.897	0.0570	
								1740	2.213	0.0600	

NOTES: To convert CFS to IS/RS, multiply by .00012640.



EVENT OF JUNE 8 - 11, 1972
REYNOLDS, IDAHO BACKS CREEK WATERSHED (046084)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa; main stem of Reynolds Creek which is tributary to the Snake River. Lat. 43 deg. 8 min. 33 sec. N.; Long. 116 deg. 45 min. 42 sec. W.

AREA: 13453.00 acres 21.02 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1972	P	4.64	3.98	3.33	1.82	1.28	2.18	0.01	0.92	1.56	2.29	2.04	4.69	28.74															
	Q	1.015	1.060	3.901	2.340	4.389	2.525	0.388	0.104	0.080	0.124	0.143	0.360	16.430															
STA AV	P	6.18	2.58	2.69	1.96	1.33	2.30	0.45	1.30	1.26	2.14	3.47	4.25	29.90															
	Q	0.960	0.651	1.332	1.759	3.642	1.715	0.268	0.052	0.040	0.089	0.170	0.246	10.924															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
Maximum Discharge		1 Hour				2 Hours				6 Hours				12 Hours				1 Day				2 Days				8 Days			
Date Date		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.							
1972	3- 2	0.020	3- 2	0.020	3- 2	0.039	3- 2	0.115	3- 2	0.209	2-28	0.342	2-27	0.518	2-28	1.605													
MAXIMUMS FOR PERIOD OF RECORD																													
1-21		0.030	1-21		0.029	1-21		0.057	1-21		0.157	1-21		0.283	1-20		0.854	1-20		0.612	5- 4		1.856						
1969			1969			1969			1969			1969			1969			1969			1971								

NOTES: Watershed conditions - Watershed is generally sagebrush rangeland except for scattered stands of Douglas fir and aspen and mountain meadows. The topography is steep with numerous rock outcrops on the ridges. The watershed is used mainly for cattle grazing except during the winter when snow blankets most of the area. Vegetation consists predominantly of big sagebrush, little sagebrush, rabbitbrush, snowberry, blue bunch wheatgrass, Idaho fescue, and squirreltail grass. 25% of the area has a vegetative cover of 0-25%, 15% of the area has a vegetative cover of 26-50%, 15% of the area has a vegetative cover of 51-75%, and 45% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68-66. Records began: Precipitation - 1963; Runoff - 1967. Precipitation: Thiessen weighted average "Computed Actual" amounts from 16 rain gages. Station average precipitation amounts are based on 1968-72 record period. Station average runoff amounts are based on 1967-72 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles S.W. of watershed.

SNOW COURSE DATA: DATE OF MEASUREMENT/AVERAGE WATER CONTENT (INCHES)																								
Course#	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches
144062	010872	12.10	012172	13.71	020572	16.70	021872	17.60	030372	20.80	031872	15.90												
144062	033172	16.00	041572	9.80	121272	1.00	122772	1.90																
155054	010872	10.50	012172	12.10	020572	14.00	021872	15.70	030372	18.20	031872	14.00												
155054	033172	13.90	041572	7.30	121272	1.50																		
163020	010872	21.00	020572	26.70	021872	30.45	030372	35.10	031872	36.23	033172	40.00												
163020	041572	35.90	050572	33.50	051272	28.00	052472	25.10	112872	2.30	121172	5.00												
163020	122672	7.70																						
163098	010872	19.80	020572	28.80	021872	30.00	030372	37.40	031872	35.40	033172	42.80												
163098	041572	38.60	050572	35.30	051272	30.80	052472	23.60	112872	2.15	122672	5.50												
167007	010872	10.10	012172	8.40	020472	10.30	021872	11.10	030372	14.90	031872	12.20												
167007	033172	12.60	041472	8.40	050172	6.20	112872	0.75	121172	1.75	122772	3.62												
174026	010872	19.80	020572	25.10	021872	24.80	030372	39.30	031872	38.20	033172	43.00												
174026	041572	41.90	050572	32.90	051272	27.30	052472	18.30	112872	1.95	122672	6.10												

NOTES: For snow course location information, see map on p. 68.001-6 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330.

1972 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.01	0.01	0.54	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0													
2	0.05	0.0	1.23	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T													
3	0.01	0.00T	0.13	0.06	0.0	0.05	0.0	0.0	0.0	0.0	0.06	0.04													
4	0.03	0.0	0.00T	0.00T	0.0	0.0	0.0	0.0	0.00T	0.09	0.55	0.01													
5	0.00T	0.01	0.0	0.01	0.0	0.0	0.00T	0.0	0.14	0.00T	0.00T	0.0													
6	0.0	0.02	0.00T	0.00T	0.03	0.00T	0.56	0.0	0.0	0.00T	0.0	0.0	0.33												
7	0.02	0.00T	0.00T	0.00T	0.03	0.74	0.0	0.0	0.0	0.0	0.01	0.21													
8	0.03	0.00T	0.00T	0.00T	0.00T	0.14	0.0	0.00T	0.0	0.0	0.11	0.11													
9	0.00T	0.0	0.00T	0.0	0.0	0.23	0.0	0.02	0.0	0.31	0.01	0.00T													
10	0.02	0.00T	0.01	0.0	0.0	0.35	0.0	0.02	0.0	0.07	0.04	0.00T													
11	0.04	0.03	0.00T	0.23	0.0	0.0	0.0	0.00T	0.24	0.07	0.05	0.00T													
12	0.52	0.00T	0.00T	0.53	0.05	0.0	0.0	0.0	0.0	0.00T	0.01	0.11													
13	0.04	0.30	0.09	0.02	0.00T	0.0	0.0	0.00T	0.0	0.00T	0.01	0.01													
14	0.0	0.26	0.00T	0.0	0.0	0.02	0.0	0.56	0.0	0.03	0.03	0.00T													
15	0.0	0.37	0.00T	0.00T	0.0	0.04	0.0	0.09	0.0	0.15	0.01	0.00T													
16	0.00T	0.03	0.0	0.16	0.0	0.00T	0.0	0.00T	0.0	0.09	0.11	0.03													
17	0.04	0.14	0.10	0.02	0.01	0.00T	0.0	0.0	0.0	0.01	0.02	1.22													
18	1.16	0.0	0.41	0.01	0.00T	0.0	0.00T	0.01	0.0	0.00T	0.03	0.38													
19	0.00T	0.0	0.0	0.0	0.08	0.0	0.0	0.15	0.01	1.09	0.35	0.44													
20	0.24	0.05	0.0	0.00T	0.19	0.00T	0.0	0.05	0.0	0.02	0.00T	0.03													
21	0.40	0.00T	0.0	0.36	0.85	0.0	0.00T	0.01	0.00T	0.00T	0.0	0.02													
22	1.59	0.32	0.03	0.01	0.06	0.01	0.0	0.0	0.00T	0.0	0.0	0.41													
23	0.22	0.58	0.07	0.0	0.01	0.00T	0.0	0.0	0.01	0.00T	0.0	0.18													
24	0.00T	0.22	0.16	0.00T	0.00T	0.0	0.0	0.0	0.07	0.0	0.0	0.20													
25	0.00T	0.01	0.35	0.02	0.0	0.03	0.0	0.0	0.00T	0.0	0.14	0.01													
26	0.03	0.42	0.11	0.0	0.0	0.0	0.0	0.0	0.62	0.05	0.47	0.00T													
27	0.11	0.11	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.00T	0.01													
28	0.01	1.11	0.04	0.0	0.0	0.0	0.0	0.0	0.00T	0.27	0.02	0.08													
29	0.00T	0.01	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.03	0.00T	0.0													
30	0.0	0.0	0.0	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.00T	0.0	0.14													
31	0.07		0.0		0.01		0.0	0.01		0.0		0.23													
TOTAL	4.64	3.98	3.33	1.82	1.28	2.18	0.01	0.92	1.56	2.29	2.04	4.69													
STA AV	6.18	2.58	2.69	1.96	1.33	2.30	0.45	1.30	1.26	2.14	3.47	4.25													

NOTES: Values are Thiessen weighted average 'Actual' amounts from 16 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. E. Hason, "Computing Actual Precipitation", Proceedings of WMO-IDBS Symposium, Gellio, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 5 yr (1968-72) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1972 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.00T	0.01	0.38	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0												
2	0.02	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0												
3	0.01	0.00T	0.09	0.04	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.06	0.38												
4	0.02	0.0	0.00T	0.00T	0.0	0.0	0.0	0.0	0.00T	0.08	0.52	0.01	0.0												
5	0.00T	0.00T	0.0	0.01	0.0	0.0	0.0	0.00T	0.0	0.13	0.00T	0.00T	0.0												
6	0.0	0.02	0.00T	0.00T	0.02	0.00T	0.52	0.0	0.0	0.00T	0.0	0.0	0.16												
7	0.01	0.00T	0.00T	0.00T	0.00T	0.02	0.70	0.0	0.0	0.0	0.0	0.01	0.09												
8	0.01	0.00T	0.00T	0.00T	0.00T	0.02	0.12	0.0	0.00T	0.0	0.0	0.07	0.04												
9	0.00T	0.0	0.00T	0.0	0.0	0.0	0.22	0.0	0.01	0.0	0.27	0.01	0.00T												
10	0.01	0.00T	0.01	0.0	0.0	0.33	0.0	0.02	0.0	0.06	0.03	0.00T	0.0												
11	0.02	0.02	0.00T	0.11	0.0	0.0	0.0	0.00T	0.22	0.06	0.03	0.00T	0.00T												
12	0.32	0.00T	0.04	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.01	0.09												
13	0.03	0.16	0.08	0.01	0.00T	0.0	0.0	0.0	0.0	0.00T	0.01	0.00T	0.0												
14	0.0	0.16	0.00T	0.0	0.0	0.02	0.0	0.49	0.0	0.03	0.02	0.00T	0.00T												
15	0.0	0.22	0.00T	0.00T	0.0	0.04	0.0	0.05	0.0	0.13	0.01	0.00T	0.00T												
16	0.00T	0.01	0.0	0.10	0.0	0.00T	0.0	0.00T	0.0	0.08	0.08	0.02	0.0												
17	0.03	0.07	0.08	0.01	0.00T	0.00T	0.0	0.0	0.0	0.01	0.01	1.09	0.0												
18	0.77	0.0	0.30	0.00T	0.00T	0.0	0.00T	0.01	0.0	0.00T	0.02	0.29	0.0												
19	0.00T	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.15	0.01	0.87	0.25	0.34												
20	0.18	0.02	0.0	0.00T	0.15	0.00T	0.0	0.04	0.0	0.01	0.00T	0.02	0.0												
21	0.30	0.00T	0.0	0.25	0.63	0.0	0.0	0.00T	0.01	0.00T	0.00T	0.0	0.01												
22	1.19	0.16	0.02	0.00T	0.03	0.01	0.0	0.0	0.00T	0.0	0.0	0.26	0.0												
23	0.14	0.30	0.04	0.0	0.01	0.00T	0.0	0.0	0.01	0.00T	0.0	0.11	0.0												
24	0.00T	0.12	0.08	0.00T	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.12	0.0												
25	0.00T	0.00T	0.19	0.02	0.0	0.03	0.0	0.0	0.00T	0.0	0.12	0.00T	0.0												
26	0.02	0.25	0.06	0.0	0.0	0.0	0.0	0.0	0.55	0.02	0.41	0.00T	0.00T												
27	0.06	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.00T	0.0	0.00T												
28	0.00T	0.78	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.14	0.01	0.04												
29	0.00T	0.01	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.02	0.00T	0.0	0.0												
30	0.0		0.0	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.00T	0.0	0.0	0.06												
31	0.03		0.0		0.01		0.0	0.0	0.01		0.0		0.11												
TOTAL		3.16	2.40	2.31	1.14	0.95	2.04	0.01	0.83	1.41	1.79	1.70	3.25												
STA AV																									

NOTES: Values are Thiessen weighted average amounts from 16 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1972	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.00T	0.01	0.46	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
2	0.03	0.0	1.08	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	
3	0.00T	0.11	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	
4	0.02	0.0	0.00T	0.00T	0.0	0.0	0.0	0.0	0.00T	0.08	0.54	0.01	
5	0.00T	0.01	0.0	0.01	0.0	0.0	0.00T	0.0	0.14	0.00T	0.00T	0.0	
6	0.0	0.02	0.00T	0.02	0.00T	0.54	0.0	0.0	0.00T	0.0	0.0	0.24	
7	0.01	0.00T	0.00T	0.00T	0.03	0.73	0.0	0.0	0.0	0.0	0.01	0.14	
8	0.02	0.00T	0.00T	0.00T	0.03	0.13	0.0	0.00T	0.0	0.0	0.09	0.08	
9	0.00T	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.29	0.01	0.00T	0.00T	
10	0.01	0.00T	0.01	0.0	0.0	0.34	0.0	0.02	0.0	0.06	0.04	0.00T	
11	0.02	0.02	0.00T	0.16	0.0	0.0	0.0	0.00T	0.23	0.07	0.04	0.00T	
12	0.42	0.00T	0.05	0.38	0.0	0.0	0.0	0.0	0.0	0.01	0.10	0.0	
13	0.03	0.23	0.09	0.02	0.00T	0.0	0.0	0.00T	0.0	0.00T	0.01	0.01	
14	0.0	0.21	0.00T	0.0	0.0	0.02	0.0	0.53	0.0	0.03	0.02	0.00T	
15	0.0	0.29	0.00T	0.00T	0.0	0.04	0.0	0.09	0.0	0.14	0.01	0.00T	
16	0.00T	0.02	0.0	0.13	0.0	0.00T	0.0	0.00T	0.0	0.08	0.10	0.03	
17	0.03	0.11	0.09	0.02	0.01	0.00T	0.0	0.0	0.0	0.01	0.01	1.16	
18	0.0	0.36	0.00T	0.00T	0.0	0.00T	0.0	0.00T	0.0	0.02	0.02	0.0	
19	0.00T	0.0	0.0	0.0	0.07	0.0	0.0	0.15	0.01	0.97	0.30	0.39	
20	0.21	0.03	0.0	0.00T	0.18	0.00T	0.0	0.05	0.0	0.01	0.00T	0.03	
21	0.35	0.00T	0.0	0.31	0.75	0.0	0.00T	0.01	0.00T	0.00T	0.0	0.02	
22	1.39	0.23	0.03	0.00T	0.05	0.01	0.0	0.0	0.00T	0.0	0.0	0.34	
23	0.18	0.43	0.06	0.0	0.01	0.00T	0.0	0.0	0.01	0.00T	0.0	0.14	
24	0.17	0.12	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	
25	0.00T	0.01	0.26	0.02	0.0	0.03	0.0	0.0	0.00T	0.0	0.13	0.01	
26	0.02	0.33	0.08	0.0	0.0	0.0	0.0	0.0	0.59	0.04	0.45	0.00T	
27	0.08	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.00T	0.00T	
28	0.01	0.94	0.03	0.0	0.0	0.0	0.0	0.0	0.00T	0.20	0.01	0.06	
29	0.00T	0.01	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.02	0.00T	0.0	
30	0.0	0.0	0.0	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.00T	0.0	0.10	
31	0.05	0.0	0.0	0.01	0.01	0.0	0.0	0.01	0.0	0.0	0.16	0.0	
TOTAL	3.88	3.16	2.83	1.47	1.13	2.12	0.01	0.89	1.49	2.02	1.87	3.96	
STA AV													

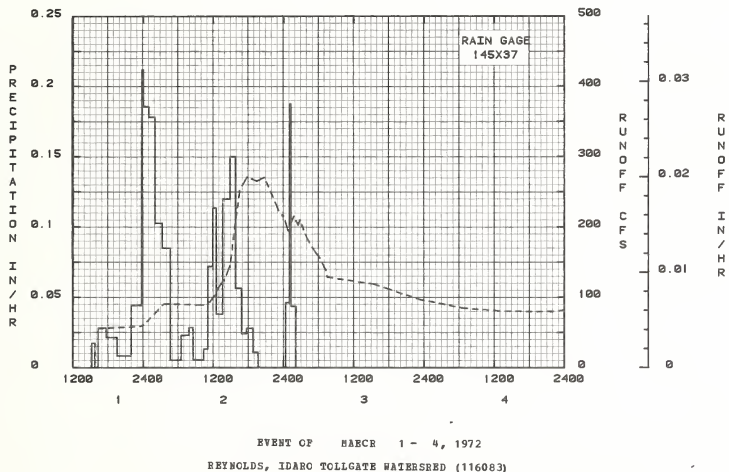
NOTES: Values are Thiessen weighted average amounts from 16 shielded recording gages. STA AV do not apply to shielded rain gage records.

1972	MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	3.69	10.06	56.88	34.11	47.49	88.59	15.24	2.91	1.13	1.82	2.29	2.57	
2	3.73	8.90	150.59	56.08	53.55	83.39	14.14	2.76	1.07	1.79	2.48	2.52	
3	3.85	8.37	136.14	48.84	62.96	83.92	13.38	2.59	1.01	1.71	2.38	2.39	
4	3.98	8.01	83.36	56.54	72.55	76.84	12.29	2.47	0.95	1.93	4.88	1.92	
5	4.06	7.38	94.95	65.42	78.19	69.76	11.70	2.32	1.16	2.02	3.50	1.89	
6	4.02	7.39	97.46	67.13	84.07	74.05	10.93	2.09	1.28	1.92	2.69	1.84	
7	3.98	7.03	80.40	59.90	88.65	83.18	10.25	2.02	1.35	1.91	2.60	1.93	
8	3.93	6.95	69.95	53.70	83.45	77.99	9.51	1.83	1.42	1.90	2.60	2.02	
9	3.89	6.69	77.62	49.98	76.49	73.55	9.48	1.82	1.54	2.02	2.42	2.11	
10	3.89	8.19	84.83	48.18	75.94	76.75	9.20	1.92	1.66	2.63	2.54	2.16	
11	3.98	7.58	78.65	44.86	80.46	63.46	8.39	1.77	1.84	2.33	2.57	2.22	
12	4.10	6.42	74.56	43.23	87.46	58.15	7.70	1.55	1.77	2.15	2.51	2.27	
13	3.94	7.51	82.98	40.03	87.43	47.99	6.77	1.66	1.60	2.05	2.38	2.36	
14	3.81	6.64	74.84	38.97	95.63	48.47	6.54	1.96	1.49	2.14	2.45	2.45	
15	3.89	6.85	71.58	40.99	99.77	42.20	6.35	3.21	1.35	2.47	2.39	2.54	
16	3.85	7.72	73.03	39.87	99.04	40.09	5.76	1.96	1.16	2.34	2.49	4.60	
17	3.95	9.60	77.85	33.43	98.33	37.35	5.48	1.86	1.07	2.16	2.51	24.22	
18	33.92	10.35	90.65	30.40	90.61	34.97	5.16	1.80	1.00	2.11	2.35	18.21	
19	41.43	11.93	72.44	29.96	85.00	31.63	4.95	1.86	1.11	3.62	2.53	26.76	
20	35.98	17.70	63.84	30.10	82.76	28.30	5.01	2.10	1.25	5.27	2.12	13.44	
21	52.43	18.83	60.61	36.79	89.83	27.31	4.92	1.93	1.19	2.83	1.73	14.61	
22	115.17	16.08	62.99	32.96	79.79	25.71	4.64	1.73	1.20	2.42	1.72	13.15	
23	60.79	14.11	61.27	35.93	73.51	25.16	4.07	1.66	1.28	2.27	1.77	9.47	
24	37.34	15.15	38.95	38.95	70.33	23.38	3.67	1.57	0.97	2.06	1.76	9.55	
25	28.18	12.83	50.67	36.05	67.79	22.65	3.44	1.60	1.69	2.07	2.27	7.26	
26	23.95	16.87	44.33	35.00	67.75	20.56	3.64	1.48	2.06	2.15	6.36	6.31	
27	44.31	83.26	81.17	70.26	19.25	3.76	1.31	3.57	1.89	3.68	5.93		
28	17.80	173.27	37.38	52.53	76.18	18.14	3.49	1.20	2.27	2.05	3.29	5.10	
29	15.15	118.89	34.03	53.85	82.06	16.62	3.17	1.13	1.97	2.17	2.92	3.09	
30	13.11		32.52	47.75	84.40	15.85	3.20	1.14	1.89	1.73	2.63	4.19	
31	11.58		31.20		89.14		3.14	1.21		2.05		4.24	
MEAN	16.508	20.667	71.130	44.087	80.025	47.572	7.078	1.888	1.509	2.262	2.702	6.559	
INCHES	1.015	1.460	3.461	2.380	4.869	2.525	0.368	0.104	0.080	0.124	0.143	0.360	
STA AV	0.960	0.651	1.332	1.759	3.642	1.715	0.268	0.052	0.040	0.089	0.170	0.246	

NOTES: To convert CFS to I8/DAY, multiply by 0.001769. STA AV amounts based on 1967-72 record period.

1972 SELECTED RUMOFF EVENT				REYNOLDS, IDARO TOLLGATE WATERSHED (116083)							
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 1 - 4, 1972											
RG 145X37											
3- 1	0.0	0.068	3- 1	1510	0.0	0.0	3- 1	1615	55.693	0.0	
				1544	0.0176	0.01		2330	59.033	0.0307	
				1615	0.0	0.01		2400	60.406	0.0329	
				1740	0.0282	0.05	3- 2	200	77.752	0.0430	
				1932	0.0214	0.09		330	90.686	0.0523	
WATERSHED CONDITIONS:											
Event preceded by approximately 1.10 inches of rain on 2/28/72. It is a combined snowmelt and rain event.											
			3- 2	2155	0.0084	0.11		1020	88.885	0.0976	
				2343	0.0444	0.19		1125	93.434	0.1049	
				2400	0.2118	0.25		1215	102.994	0.1109	
				55	0.1855	0.42		1253	114.239	0.1160	
				159	0.1781	0.61		1355	125.146	0.1251	
				315	0.1026	0.74		1452	145.244	0.1345	
				440	0.0847	0.86		1525	162.851	0.1412	
				632	0.0054	0.87		1630	252.415	0.1586	
				750	0.0231	0.90		1742	270.787	0.1817	
				832	0.0286	0.92		1920	265.185	0.2140	
				1020	0.0056	0.93		2040	270.787	0.2403	
				1105	0.0133	0.94		2150	248.843	0.2627	
				1155	0.0720	1.00		2310	223.122	0.2859	
				1232	0.1135	1.07		2350	218.960	0.2966	
				1335	0.0381	1.11		2400	218.960	0.2993	
				1450	0.1200	1.26	3- 3	45	194.675	0.3106	
				1546	0.1500	1.40		145	218.960	0.3257	
				1650	0.0563	1.46		230	202.319	0.3372	
				1740	0.0240	1.48		245	210.159	0.3410	
				1844	0.0281	1.51		400	184.301	0.3592	
			3- 3	1940	0.0107	1.52		515	166.026	0.3753	
				20	0.0	1.52		615	155.404	0.3872	
				59	0.0462	1.55		715	137.922	0.3980	
				115	0.1875	1.60		730	128.549	0.4005	
				210	0.0436	1.64		1530	118.522	0.4733	
								1830	110.060	0.4986	
								2300	97.184	0.5340	
								2400	95.297	0.5401	

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.



REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)

LOCATION: Owyhee County, Idaho; 35 miles south of Hampa, Idaho; an east-flowing tributary to Reynolds Creek, tributary to the Snake River. Lat. 43 deg. 15 min. 21 sec. N.; Long. 116 deg. 49 min. 1 sec. W.

AREA: 306.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)																			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																				
1972	P 2.68	1.47	2.71	1.54	0.62	3.36	0.07	0.10	1.52	1.45	2.81	3.63	21.98																				
	Q 2.005	1.736	5.010	2.173	1.339	0.638	0.113	0.010	0.013	0.095	0.154	0.465	13.752																				
STA AV	P 4.07	1.57	2.17	1.71	1.21	2.92	0.22	0.77	1.13	1.70	2.66	2.59	22.72																				
	Q 1.878	0.933	1.747	1.584	0.929	0.326	0.064	0.003	0.003	0.038	0.146	0.388	8.039																				
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																																	
Maximum Discharge														Maximum Volume for Selected Time Interval																			
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		6 Days																	
Date		Date		Vol.		Vol.		Vol.		Vol.		Vol.		Vol.		Vol.		Date		Date		Date		Date		Date							
1972		3-2		0.042		3-2		0.038		3-2		0.075		3-2		0.196		3-2		0.322		3-2		0.532		3-2		0.838		3-1		1.931	
MAXIMUMS FOR PERIOD OF RECORD																																	
		1-27		0.060		1-21		0.050		1-20		0.096		1-20		0.261		1-20		0.445		1-20		0.720		1-20		1.050		3-1		1.931	
		1970				1969				1969				1969				1969				1969				1969				1972			

NOTES: Watershed conditions: Watershed is sagebrush rangeland used almost exclusively for cattle grazing. Willows are common along watercourses and in steep areas. Vegetation consists largely of big sagebrush, bitterbrush, Idaho fescue, Sandberg bluegrass, bluebunch wheatgrass, squirreltail grass, and snowberry. 10% of the area has a vegetative cover of 0-25%, 35% of the area has a vegetative cover of 26-50%, 20% of the area has a vegetative cover of 51-75%, and 35% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68-11-6. Records started: Precipitation - 1963; Runoff - 1967. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 3 rain gauges. Station average precipitation amounts based on 1966-72 record period. Station average runoff amounts based on 1967-72 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1972 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.03	0.59	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
2	0.000T	0.0	0.90	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
3	0.0	0.0	0.14	0.000T	0.0	0.04	0.0	0.0	0.0	0.0	0.01	0.0													
4	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0													
5	0.0	0.04	0.0	0.03	0.0	0.0	0.0	0.0	0.36	0.0	0.02	0.0													
6	0.0	0.07	0.0	0.0	0.02	0.09	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.01	0.01	0.0	0.01	0.000T	0.58	0.0	0.0	0.0	0.0	0.02	0.02													
8	0.01	0.000T	0.0	0.0	0.000T	0.66	0.0	0.0	0.0	0.15	0.03	0.0													
9	0.01	0.000T	0.0	0.0	0.0	1.02	0.0	0.0	0.0	0.30	0.0	0.0													
10	0.01	0.0	0.01	0.0	0.0	0.41	0.0	0.01	0.0	0.06	0.09	0.0													
11	0.000T	0.01	0.0	0.16	0.01	0.000T	0.0	0.0	0.24	0.05	0.08	0.0													
12	0.45	0.000T	0.06	0.18	0.0	0.0	0.0	0.0	0.0	0.02	0.06	0.26													
13	0.000T	0.18	0.07	0.000T	0.0	0.0	0.0	0.0	0.0	0.0	0.000T	0.000T													
14	0.0	0.15	0.000T	0.0	0.0	0.02	0.0	0.08	0.0	0.0	0.15	0.0													
15	0.0	0.10	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.33	0.0	0.000T													
16	0.0	0.000T	0.0	0.33	0.0	0.000T	0.0	0.0	0.0	0.02	0.10	0.01													
17	0.0	0.09	0.0	0.05	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.52													
18	0.80	0.0	0.63	0.0	0.000T	0.000T	0.0	0.0	0.0	0.0	0.22	0.18													
19	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.03	0.58	0.77	0.40													
20	0.16	0.0	0.0	0.000T	0.03	0.0	0.0	0.0	0.0	0.02	0.0	0.0													
21	0.02	0.02	0.0	0.36	0.47	0.0	0.07	0.0	0.02	0.0	0.01	0.000T													
22	0.49	0.10	0.01	0.0	0.0	0.000T	0.0	0.0	0.0	0.0	0.01	0.37													
23	0.47	0.11	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.000T	0.0	0.25													
24	0.000T	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.25													
25	0.000T	0.0	0.16	0.01	0.0	0.11	0.0	0.0	0.0	0.01	0.11	0.03													
26	0.10	0.18	0.02	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.56	0.01													
27	0.12	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.04													
28	0.0	0.39	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.16													
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0													
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.03													
31	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26													
TOTAL	2.68	1.47	2.71	1.54	0.62	3.36	0.07	0.10	1.52	1.45	2.81	3.63													
STA AV	4.07	1.57	2.17	1.71	1.21	2.52	0.22	0.77	1.13	1.70	2.66	2.59													

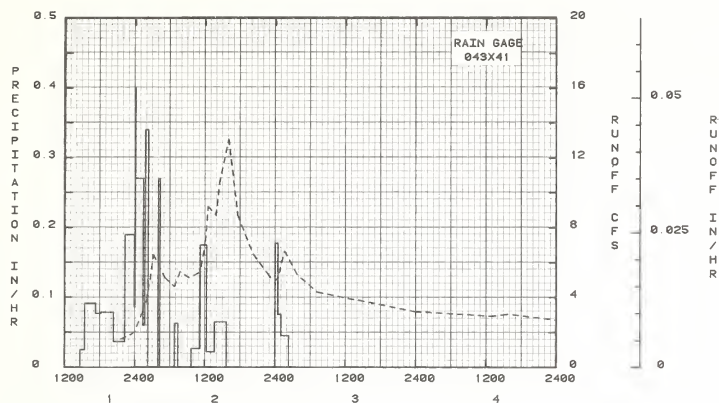
NOTES: Values are Thiessen weighted average 'Actual' amounts from 3 recording pairs of gauges (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hanson, "Computing Actual Precipitation", Proceedings of WMO-IBS Symposium, Oslo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 5 yr (1968-72) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1972	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.01	0.47	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.00T	0.0	0.73	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.11	0.00T	0.0	0.04	0.0	0.0	0.0	0.0	0.00T	0.38	
4	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.42	0.01	
5	0.0	0.03	0.0	0.03	0.0	0.0	0.0	0.0	0.35	0.0	0.02	0.0	
6	0.0	0.05	0.0	0.0	0.02	0.05	0.0	0.0	0.0	0.0	0.0	0.06	
7	0.01	0.11	0.0	0.01	0.00T	0.58	0.0	0.0	0.0	0.0	0.02	0.01	
8	0.01	0.00T	0.0	0.0	0.00T	0.64	0.0	0.0	0.0	0.0	0.15	0.01	
9	0.01	0.00T	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.27	0.0	0.0	
10	0.01	0.0	0.01	0.0	0.0	0.36	0.0	0.01	0.0	0.05	0.02	0.0	
11	0.00T	0.01	0.0	0.12	0.01	0.00T	0.0	0.0	0.22	0.05	0.03	0.0	
12	0.29	0.00T	0.06	0.13	0.0	0.0	0.0	0.0	0.0	0.02	0.01	0.14	
13	0.00T	0.11	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	
14	0.0	0.12	0.00T	0.0	0.0	0.02	0.0	0.08	0.0	0.0	0.05	0.0	
15	0.0	0.07	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.31	0.0	0.00T	
16	0.0	0.00T	0.0	0.25	0.0	0.00T	0.0	0.0	0.0	0.01	0.05	0.01	
17	0.0	0.08	0.0	0.03	0.03	0.0	0.0	0.0	0.0	0.0	0.00T	0.45	
18	0.77	0.0	0.63	0.0	0.00T	0.00T	0.0	0.0	0.0	0.0	0.12	0.17	
19	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.53	0.45	0.34	
20	0.16	0.0	0.0	0.00T	0.02	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
21	0.01	0.01	0.0	0.28	0.35	0.0	0.07	0.0	0.01	0.0	0.00T	0.00T	
22	0.47	0.05	0.01	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.00T	0.18	
23	0.46	0.07	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.12	
24	0.00T	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.12	
25	0.00T	0.0	0.14	0.01	0.0	0.11	0.0	0.0	0.0	0.01	0.10	0.01	
26	0.10	0.15	0.02	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.52	0.01	
27	0.07	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.01	
28	0.0	0.31	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.06	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01	
31	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
TOTAL	2.39	1.10	2.35	1.26	0.48	3.27	0.07	0.10	1.30	1.32	2.00	2.22	
STA AV													

NOTES: Values are Thiessen weighted average amounts from 3 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1972	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.02	0.53	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.00T	0.0	0.83	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.12	0.00T	0.0	0.04	0.0	0.0	0.0	0.0	0.00T	0.53	
4	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.44	0.01	
5	0.0	0.03	0.0	0.03	0.0	0.0	0.0	0.0	0.36	0.0	0.02	0.0	
6	0.0	0.06	0.0	0.0	0.02	0.09	0.0	0.0	0.0	0.0	0.0	0.08	
7	0.01	0.01	0.0	0.01	0.00T	0.58	0.0	0.0	0.0	0.0	0.02	0.02	
8	0.01	0.00T	0.0	0.0	0.00T	0.65	0.0	0.0	0.0	0.0	0.15	0.02	
9	0.01	0.00T	0.0	0.0	0.0	1.02	0.0	0.0	0.0	0.29	0.0	0.0	
10	0.01	0.0	0.01	0.0	0.0	0.39	0.0	0.01	0.0	0.05	0.05	0.0	
11	0.00T	0.01	0.0	0.14	0.01	0.00T	0.0	0.0	0.23	0.05	0.05	0.0	
12	0.37	0.00T	0.06	0.16	0.0	0.0	0.0	0.0	0.0	0.02	0.03	0.20	
13	0.00T	0.13	0.07	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.00T	
14	0.0	0.13	0.00T	0.0	0.0	0.02	0.0	0.08	0.0	0.0	0.09	0.0	
15	0.0	0.08	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.32	0.0	0.00T	
16	0.0	0.00T	0.0	0.29	0.0	0.00T	0.0	0.0	0.0	0.01	0.07	0.01	
17	0.0	0.09	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.00T	0.49	
18	0.79	0.0	0.63	0.0	0.00T	0.00T	0.0	0.0	0.0	0.0	0.17	0.18	
19	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.56	0.61	0.38	
20	0.16	0.0	0.0	0.01	0.03	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
21	0.01	0.01	0.0	0.32	0.41	0.0	0.07	0.0	0.01	0.0	0.01	0.00T	
22	0.48	0.07	0.01	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.00T	0.27	
23	0.47	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.15	
24	0.00T	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.18	
25	0.00T	0.0	0.16	0.01	0.0	0.11	0.0	0.0	0.0	0.01	0.11	0.02	
26	0.10	0.17	0.02	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.54	0.01	
27	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.02	
28	0.0	0.35	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.11	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.02	
31	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	
TOTAL	2.54	1.29	2.54	1.40	0.56	3.22	0.07	0.10	1.44	1.40	2.37	2.88	
STA AV													

NOTES: Values are Thiessen weighted average amounts from 3 shielded recording gages. STA AV do not apply to shielded rain gage records.



EVENT OF MARCH 1 - 4, 1972
REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)

LOCATION: Owyhee County, Idaho; 30 miles south of Nampa, Idaho, a west-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 205.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO SUMMIT WATERSHED (048077)													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1972	P	1.19	0.50	0.64	0.29	0.11	2.04	0.01	0.34	1.12	0.91	1.46	1.52	10.13													
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.000													
STA AV	P	1.78	0.49	0.83	0.53	0.70	1.72	0.07	0.96	0.72	0.89	1.16	1.10	10.98													
	Q	0.002	0.0	0.0	0.0	0.0	0.012	0.0	0.014	0.000	0.0	0.0	0.0	0.028													
ANNUAL MAXIMUM DISCHARGE (10/HR) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1972		9-5	0.000	9-5	0.000	9-5	0.000	9-5	0.000	9-5	0.000	9-5	0.000	9-5	0.000	9-5	0.000										
MAXIMUMS FOR PERIOD OF RECORD																											
		6-19	0.258	6-19	0.059	6-19	0.059	6-19	0.070	6-20	0.070	6-20	0.070	6-19	0.070	8-9	0.083										
		1969		1969		1969		1969		1969		1969		1969		1968											

NOTES: Watershed conditions: Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 6-25% and 75% of the area has a vegetative cover of 25-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.12-5. Records started: Precipitation - 1963; Runoff - 1967. Precipitation: 'Computed Actual' amounts from 1 rain gage. Station average precipitation amounts are based on 1968-72 period of record. Station average runoff amounts are based on 1967-72 period of record. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1972 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
2	0.0	0.0	0.19	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
3	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.50												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.01												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.02												
6	0.0	0.01	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.03												
7	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.0	0.01	0.05												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.07												
9	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.12	0.0	0.0												
10	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.02	0.0	0.0												
11	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.13	0.01	0.02	0.0												
12	0.52	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.13												
13	0.0	0.05	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01												
14	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.08	0.02	0.03												
15	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.0	0.03	0.0	0.11	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.04	0.05	0.0												
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30												
18	0.13	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.03												
19	0.0	0.0	0.01	0.0	0.07	0.0	0.0	0.0	0.07	0.01	0.47	0.88	0.03												
20	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.02	0.0	0.0												
21	0.10	0.0	0.0	0.0	0.07	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0												
22	0.21	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05												
23	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05												
24	0.0	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0												
25	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0												
26	0.01	0.12	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.16	0.0												
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.02												
28	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.02												
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0												
30	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
31	0.0												0.22												
TOTAL	1.19	0.50	0.64	0.29	0.11	2.04	0.01	0.34	1.12	0.91	1.46	1.52													
STA AV	1.78	0.49	0.83	0.53	0.70	1.72	0.07	0.96	0.72	0.89	1.16	1.10													

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 048077. 'Actual' amounts were computed as per relationship developed by W. E. Bason, "Computing Actual Precipitation", Proceedings of WHO-IBS Symposium, Gellio, Norway, August, 1972. The equation used is: $\log_e (U/S) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 5 yr (1966-72) record period. For temperature information, see table of daily maximum and minimum values included for 68.001.

1972	DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO SUMMIT WATERSHED (048077)																
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	1	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	2	0.0	0.0	0.12	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.12	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	3	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.37	3	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.37			
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0			
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02			
	6	0.0	0.01	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.03	6	0.0	0.01	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.03			
	7	0.0	0.0	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.05	0.0	7	0.0	0.0	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.05	0.0	0.0			
	8	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.07	0.02	8	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.07	0.02	0.0			
	9	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.12	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.12	0.0	0.0			
	10	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.02	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.02	0.0	0.0			
	11	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.13	0.01	0.02	0.0	11	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.13	0.01	0.02	0.0			
	12	0.20	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.11	12	0.20	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.01	0.0	0.0	0.11			
	13	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	14	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.08	0.02	0.03	14	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.08	0.02	0.03			
	15	0.0	0.03	0.0	0.0	0.0	0.13	0.0	0.02	0.0	0.11	0.0	0.0	15	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.0	0.02	0.0	0.11	0.0			
	16	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.04	0.04	0.0	16	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.04	0.04	0.0			
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27			
	18	0.13	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.02	0.0	18	0.13	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.02	0.0			
	19	0.0	0.0	0.01	0.0	0.07	0.0	0.0	0.07	0.01	0.42	0.77	0.03	19	0.0	0.0	0.01	0.0	0.07	0.0	0.07	0.01	0.42	0.77	0.03	0.0			
	20	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.02	0.0	0.0	20	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.02	0.0			
	21	0.10	0.0	0.0	0.07	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	21	0.10	0.0	0.0	0.07	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0			
	22	0.20	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	22	0.20	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0			
	23	0.19	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	23	0.19	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05			
	24	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	24	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0			
	25	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	25	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0			
	26	0.01	0.08	0.01	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.16	0.0	26	0.01	0.08	0.01	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.16	0.0			
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.02	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.02			
	28	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01	28	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01			
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0			
	30	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09			
TOTAL STA AV															TOTAL STA AV														

1972		MEAN DAILY DISCHARGE (cfs)				REYNOLDS, IDAHO SUMMIT WATERSHED (048077)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0001	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	
STA AV	0.002	0.0	0.0	0.0	0.0	0.0	0.012	0.0	0.014	0.000	0.0	0.0	

NOTES: To convert CFS to IIR/DAY, multiply by 0.1161056. STA AV values are based on 6 yr (1967-72) record period.

REYNOLDS, IDABC REYNOLDS MOUNTAIN WATERSHED (166076)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa, north flowing tributary to the east fork of Reynolds Creek, Snake River Basin. Lat. 43 deg. 4 min. 16 sec. N.; Long. 116 deg. 45 min. 27 sec. W.

AREA: 100.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1972 P	9.08	6.81	4.88	2.80	1.83	2.58	0.01	1.12	1.91	2.71	2.55	5.86	42.14														
Q	0.194	0.285	2.487	3.773	15.512	9.116	1.064	0.158	0.130	0.207	0.265	0.327	33.518														
STA AV P	8.74	3.87	3.58	2.66	1.70	2.43	0.38	1.32	1.38	2.97	4.38	6.52	39.93														
Q	0.419	0.354	0.756	2.480	10.686	4.716	0.472	0.085	0.065	0.133	0.246	0.201	20.617														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
Maximum Discharge												Maximum Volume for Selected Time Interval															
Date		Date	1 Hour	2 Hours	6 Hours		12 Hours		1 Day		2 Days		8 Days														
Date		Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.											
1972		6-6	0.062	6-6	0.047	6-6	0.084	6-6	0.221	5-15	0.400	5-15	0.701	5-15	1.395	5-12	4.957										
MAXIMUMS FOR PERIOD OF RECORD																											
6-6		0.062	5-7	0.055	5-7	0.109	5-7	0.308	5-7	0.540	5-7	0.893	5-6	1.741	5-4	6.698											
1972			1971		1971		1971		1971		1971		1971		1971												

NOTES: Watershed conditions: Rangeland watershed with seasonal of grazing cattle and sheep. Scrub aspen, willow, scattered douglas fir, and sagebrush with natural mountain meadows. Vegetative cover varies with annual precipitation type of cover is 32% shrub and brush, 17% grass and forbes, and 9% rock and rock fragments. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68-12-4. Records started: Precipitation-1963; Runoff-1966. Precipitation: "Computed Actual" amounts from one rain gage. Station average precipitation values based on 1968-72 record period. Station average runoff values based on 1966-72 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

SNOW COURSE DATA: DATE OF MEASUREMENT/AVERAGE WATER CONTENT (INCHES)

Course#	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches
176007	010772	19.30	012772	24.60	020572	23.58	021272	24.70	030372	33.00	031872	33.40
176007	040172	33.20	041872	31.40	050172	27.50	051072	30.80	052672	5.10	112872	0.90
176007	121272	2.20	122672	4.70								

NOTES: For snow course location information, see Hydrologic Data for Experimental Agricultural Watersheds in the United States 1968, USDA Misc. Pub. 1330, p. 68.001-6.

1972 DAILY AIR TEMPERATURE (degrees F)												REYNOLDS, IDABO REYNOLDS MOUNTAIN WATERSHED (166076)													
Day	Jan max min	Feb max min	Mar max min	Apr max min	May max min	Jun max min	Jul max min	Aug max min	Sep max min	Oct max min	Nov max min	Dec max min	Day	Jan max min	Feb max min	Mar max min	Apr max min	May max min	Jun max min	Jul max min	Aug max min	Sep max min	Oct max min	Nov max min	Dec max min
1	25	20	13	2	30	15	45	30	47	27	70	55	74	51	77	58	69	50	61	48	38	30	45	34	
2	25	7	16	-3	35	30	42	28	57	38	72	54	65	45	74	50	69	52	60	45	37	32	37	28	
3	7	-2	27	12	33	22	47	27	55	39	65	49	67	46	73	52	72	57	63	47	43	35	26	12	
4	17	0	33	23	36	24	48	26	55	38	64	52	67	47	77	57	58	42	58	40	36	31	14	-5	
5	22	16	39	23	43	36	46	37	53	40	71	54	77	66	83	62	55	45	47	40	31	23	6	-7	
6	32	20	30	26	42	29	42	31	56	40	68	52	78	58	85	66	55	36	48	35	42	27	13	3	
7	32	23	32	24	39	21	42	27	56	41	76	55	85	66	61	38	56	42	38	30	11	1			
8	21	11	34	25	50	34	42	26	47	26	61	48	73	55	88	68	69	51	55	44	32	24	5	-7	
9	23	17	29	16	51	35	38	20	46	34	60	47	64	45	86	65	60	42	54	39	36	24	8	10	
10	23	18	33	16	47	37	41	26	50	30	48	34	72	47	85	65	49	37	46	37	33	27	0	-6	
11	30	22	31	20	40	32	38	27	51	33	51	31	74	53	84	66	40	34	49	36	32	27	11	4	
12	28	14	34	25	43	34	30	17	52	38	59	37	81	57	83	59	48	34	55	42	32	25	13	6	
13	23	11	31	18	59	30	24	14	64	42	63	41	78	60	69	55	35	35	51	40	38	27	14	7	
14	27	11	27	16	42	27	35	20	70	50	66	50	72	51	75	53	60	44	50	36	33	29	19	8	
15	32	21	33	26	46	31	46	28	64	50	67	52	73	53	70	51	66	47	49	33	35	28	32	14	
16	32	24	32	27	53	36	38	17	68	48	68	54	74	53	71	46	67	52	48	40	31	24	36	26	
17	32	27	33	30	59	39	25	13	57	34	66	50	73	52	64	41	69	49	48	38	30	23	34	30	
18	33	32	36	27	45	29	24	14	45	30	56	41	79	53	71	48	68	46	47	35	27	24	37	28	
19	33	31	39	33	36	26	35	16	50	34	60	41	61	39	68	53	49	37	41	34	26	21	34	31	
20	32	30	38	27	43	27	44	26	50	34	70	48	60	36	68	53	53	29	49	33	35	21	35	30	
21	32	26	40	26	48	0	49	24	34	30	66	44	57	40	69	53	74	43	47	38	33	17	37	28	
22	32	23	38	22	50	30	41	18	46	33	72	54	66	45	68	45	53	36	51	38	34	17	33	25	
23	31	14	26	21	32	20	50	33	54	37	60	44	77	56	60	41	42	29	43	25	33	21	33	25	
24	32	12	22	17	36	23	47	29	52	38	59	39	78	58	63	45	36	25	40	24	32	19	29	23	
25	32	16	21	15	29	11	33	23	52	33	57	38	79	58	68	48	39	24	48	33	36	24	31	26	
26	20	10	33	23	21	11	44	23	58	38	63	44	77	59	72	56	41	35	38	22	38	21	39	30	
27	16	4	38	27	10	51	32	63	44	68	47	88	55	75	58	40	31	34	20	24	17	38	25		
28	12	5	38	34	38	28	57	22	68	49	88	56	81	60	76	59	46	32	30	17	25	20	25	15	
29	1	32	17	29	17	27	17	72	54	76	80	68	64	50	56	52	31	22	12	32	21	16	11		
30	23	1	40	22	36	15	74	58	74	58	73	63	72	54	63	44	26	13	39	29	21	13			
31	20	10	47	29			73	55			82	60	67	51			37	21							
AV.	25	15	31	21	41	26	40	24	56	39	65	47	74	53	74	55	56	40	47	34	34	25	24	15	
HEAV	20.4	26.4	33.5	32.1	47.6	56.3	63.5	64.5	68.2	60.3	29.2	19.4													
STA AV	28	19	32	21	33	22	38	24	54	36	62	44	73	54	73	54	60	43	45	32	37	26	27	18	

NOTES: Temperature data are taken from hygrothermograph record at station 176314. STA AV based on 1966-72 record period.

Cooperative Research Project of USDA and USDI and Idaho Agricultural Experiment Station

1972 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSEED (166076)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.03	0.0	0.87	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	1	0.03	0.0	0.87	0.20	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
2	0.11	0.0	1.64	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.11	0.0	1.64	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.21	0.05	0.0	0.06	0.0	0.0	0.0	0.0	0.08	0.67	3	0.0	0.0	0.21	0.05	0.0	0.06	0.0	0.0	0.0	0.08	0.67	
4	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.55	0.02	4	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.55	
5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.01	0.0	0.0	5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.01	0.0	
6	0.0	0.04	0.0	0.02	0.0	0.96	0.0	0.0	0.0	0.0	0.0	0.68	6	0.0	0.04	0.0	0.02	0.0	0.96	0.0	0.0	0.0	0.0	0.0	0.68
7	0.10	0.0	0.0	0.01	0.02	0.64	0.0	0.0	0.0	0.02	0.27	0.0	7	0.10	0.0	0.0	0.01	0.02	0.64	0.0	0.0	0.0	0.02	0.27	0.0
8	0.10	0.0	0.0	0.0	0.03	0.13	0.0	0.0	0.0	0.0	0.24	0.07	8	0.10	0.0	0.0	0.0	0.03	0.13	0.0	0.0	0.0	0.24	0.07	
9	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.02	0.0	0.40	0.0	0.02	9	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.02	0.0	0.40	0.0	0.02
10	0.06	0.0	0.03	0.0	0.0	0.33	0.0	0.04	0.0	0.17	0.12	0.0	10	0.06	0.0	0.03	0.0	0.0	0.33	0.0	0.04	0.0	0.17	0.12	0.0
11	0.16	0.05	0.0	0.24	0.0	0.0	0.0	0.0	0.27	0.06	0.12	0.0	11	0.16	0.05	0.0	0.24	0.0	0.0	0.0	0.0	0.27	0.06	0.12	0.0
12	1.10	0.03	0.06	0.56	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.19	12	1.10	0.03	0.06	0.56	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.19
13	0.04	0.50	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01	13	0.04	0.50	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01
14	0.0	0.61	0.0	0.0	0.0	0.10	0.0	0.80	0.0	0.0	0.03	0.0	14	0.0	0.61	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.03	0.0
15	0.0	0.82	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.17	0.02	0.0	15	0.0	0.82	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.17	0.02	0.0
16	0.0	0.08	0.0	0.27	0.0	0.01	0.0	0.0	0.0	0.02	0.11	0.05	16	0.0	0.08	0.0	0.27	0.0	0.01	0.0	0.0	0.0	0.02	0.11	0.05
17	0.11	0.24	0.13	0.05	0.02	0.0	0.0	0.0	0.0	0.02	0.03	1.09	17	0.11	0.24	0.13	0.05	0.02	0.0	0.0	0.0	0.02	0.03	1.09	0.03
18	1.90	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.37	18	1.90	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.37	0.0
19	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.08	0.02	1.21	0.38	0.50	19	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.08	0.02	1.21	0.38
20	0.50	0.03	0.0	0.0	0.29	0.0	0.0	0.14	0.0	0.0	0.0	0.09	20	0.50	0.03	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.14	0.0	0.09
21	0.90	0.06	0.0	0.55	1.34	0.0	0.01	0.0	0.0	0.0	0.0	0.03	21	0.90	0.06	0.0	0.55	1.34	0.0	0.01	0.0	0.0	0.0	0.0	0.03
22	2.59	0.43	0.03	0.03	0.02	0.01	0.0	0.0	0.0	0.0	0.63	0.0	22	2.59	0.43	0.03	0.03	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.63
23	0.82	1.02	0.12	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.32	23	0.82	1.02	0.12	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.32
24	0.0	0.33	0.29	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.35	24	0.0	0.33	0.29	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.35	
25	0.07	0.05	0.56	0.06	0.0	0.04	0.0	0.0	0.0	0.0	0.27	0.0	25	0.07	0.05	0.56	0.06	0.0	0.04	0.0	0.0	0.0	0.0	0.27	0.0
26	0.11	1.02	0.22	0.0	0.0	0.0	0.0	0.0	0.73	0.08	0.43	0.0	26	0.11	1.02	0.22	0.0	0.0	0.0	0.0	0.73	0.08	0.43	0.0	0.0
27	0.43	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.02	0.02	27	0.43	0.06	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.02	0.02	
28	0.07	1.40	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.03	0.09	28	0.07	1.40	0.01	0.0	0.0	0.0	0.0	0.0	0.34	0.03	0.09	
29	0.07	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	29	0.07	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	
31	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	31	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	
TOTAL													5.08	6.81	4.88	2.80	1.83	2.58	0.01	1.12	1.91	2.55	5.86		
STA AV													8.74	3.87	3.58	2.66	1.70	2.43	0.38	1.32	1.38	2.97	4.38	6.52	

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 176x07. 'Actual' amounts were computed as per relationship developed by W. R. Hanson, "Computing Actual Precipitation", Proceedings of WMO-IBMS Symposium, Oslo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.09$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 5 yr (1968-72) record period.

1972 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSEED (166076)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01	0.0	0.58	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	1	0.01	0.0	0.58	0.14	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
2	0.0	0.0	1.02	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	1.02	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.13	0.04	0.0	0.06	0.0	0.0	0.0	0.0	0.07	0.44	3	0.0	0.0	0.13	0.04	0.0	0.06	0.0	0.0	0.0	0.07	0.44	
4	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.51	0.01	4	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.51	0.01	
5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.01	0.0	0.0	5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.01	0.0	
6	0.0	0.03	0.0	0.02	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.36	6	0.0	0.03	0.0	0.02	0.0	0.56	0.0	0.0	0.0	0.0	0.36	
7	0.03	0.01	0.0	0.01	0.01	0.64	0.0	0.0	0.0	0.0	0.02	0.14	7	0.03	0.01	0.0	0.01	0.01	0.64	0.0	0.0	0.0	0.02	0.14	
8	0.03	0.0	0.0	0.0	0.03	0.13	0.0	0.0	0.0	0.18	0.0	0.03	8	0.03	0.0	0.0	0.0	0.03	0.13	0.0	0.0	0.0	0.18	0.03	
9	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.02	0.0	0.36	0.0	0.01	9	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.02	0.0	0.36	0.0	
10	0.01	0.0	0.02	0.0	0.0	0.33	0.0	0.04	0.0	0.15	0.09	0.0	10	0.01	0.0	0.02	0.0	0.0	0.33	0.0	0.04	0.0	0.15	0.09	
11	0.05	0.02	0.0	0.12	0.0	0.0	0.0	0.0	0.22	0.05	0.09	0.0	11	0.05	0.02	0.0	0.12	0.0	0.0	0.0	0.0	0.22	0.05	0.09	
12	0.49	0.01	0.04	0.42	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.13	12	0.49	0.01	0.04	0.42	0.0	0.0	0.0	0.0	0.0	0.01	0.01	
13	0.01	0.17	0.06	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01	13	0.01	0.17	0.06	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
14	0.0	0.20	0.0	0.0	0.0	0.10	0.0	0.79	0.0	0.0	0.02	0.0	14	0.0	0.20	0.0	0.0	0.0	0.10	0.0	0.79	0.0	0.0	0.02	
15	0.0	0.27	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.14	0.01	0.0	15	0.0	0.27	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.14	0.01	
16	0.0	0.02	0.0	0.12	0.0	0.01	0.0	0.0	0.0	0.02	0.08	0.03	16	0.0	0.02	0.0	0.12	0.0	0.01	0.0	0.0	0.0	0.02	0.08	
17	0.05	0.08	0.05	0.02	0.01	0.0	0.0	0.0	0.0	0.02	0.02	0.76	17	0.05	0.08	0.05	0.02	0.01	0.0	0.0	0.0	0.0	0.02	0.02	
18	0.85	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.23	0.0	18	0.85	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.23	
19	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.07	0.02	1.15	0.27	0.31	19	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.07	0.02	1.15	0.27	
20	0.25	0.01	0.0	0.0	0.21	0.0	0.0	0.13	0.0	0.0	0.0	0.05	20	0.25	0.01	0.0	0.0	0.21	0.0	0.0	0.13	0.0	0.0	0.05	
21	0.44	0.02	0.0	0.24	0.95	0.0	0.01	0.0	0.0	0.0	0.0	0.01	21	0.44	0.02	0.0	0.24	0.95	0.0	0.0	0.0	0.0	0.0	0.0	
22	1.29	0.19	0.01	0.01	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.38	22	1.29	0.19	0.01	0.01	0.01	0.01	0.0	0.0	0.0	0.0	0.38	
23	0.40	0.05	0.0	0.05	0.0	0.0	0.0	0.01	0.0	0.05	0.15	0.0	23	0.40	0.05	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.15	
24	0.0	0.15	0.12	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.21	24	0.0	0.15	0.12	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.21	
25	0.02	0.02	0.23	0.03	0.0	0.04	0.0	0.0	0.0	0.0	0.22	0.0	25	0.02	0.02	0.23	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.22	
26	0.03	0.49	0.09	0.0	0.0	0.0	0.0	0.0	0.68	0.05	0.35	0.0	26	0.03	0.49	0.09	0.0	0.0	0.0	0.0	0.0	0.68	0.05	0.35	
27	0.12	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.01	0.01	27	0.12	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.01	
28	0.02	0.68	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.02	0.05	28	0.02	0.68	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.02	
29	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	29	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	
31	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	31	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	
TOTAL STA AV													4.02 2.91 2.61 1.41 1.30 2.57 0.01 1.09 1.75 2.34 2.05 3.57												

1972	DAILY PRECIPITATION (inches)					REYNOLDS, IDABO REYNOLDS MOUNTAIN WATERSHED (166076)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.02	0.0	0.71	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
2	0.07	0.0	1.33	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.17	0.0	0.05	0.0	0.06	0.0	0.0	0.0	0.0	0.07	0.56
4	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.54	0.01
5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.01	0.0	0.0
6	0.0	0.04	0.0	0.02	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.52
7	0.05	0.01	0.0	0.01	0.01	0.64	0.0	0.0	0.0	0.0	0.02	0.20
8	0.06	0.0	0.0	0.0	0.04	0.13	0.0	0.0	0.0	0.0	0.21	0.06
9	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.02	0.0	0.38	0.0	0.01
10	0.04	0.0	0.02	0.0	0.0	0.33	0.0	0.04	0.0	0.17	0.11	0.0
11	0.10	0.03	0.0	0.17	0.0	0.0	0.0	0.0	0.24	0.05	0.11	0.0
12	0.76	0.02	0.05	0.67	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.16
13	0.31	0.31	0.08	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01
14	0.0	0.38	0.0	0.0	0.0	0.10	0.0	0.79	0.0	0.0	0.02	0.0
15	0.0	0.50	0.0	0.0	0.0	0.02	0.0	0.05	0.0	0.16	0.02	0.0
16	0.0	0.05	0.0	0.19	0.0	0.01	0.0	0.0	0.0	0.02	0.09	0.05
17	0.08	0.15	0.08	0.04	0.01	0.0	0.0	0.0	0.0	0.02	0.03	0.92
18	1.33	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.30
19	0.0	0.0	0.0	0.0	0.10	0.07	0.0	0.02	0.18	0.33	0.01	0.0
20	0.37	0.02	0.0	0.0	0.25	0.0	0.0	0.13	0.0	0.0	0.0	0.07
21	0.66	0.03	0.0	0.38	1.15	0.0	0.01	0.0	0.0	0.0	0.0	0.03
22	1.90	0.1	0.01	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.50	0.0
23	0.30	0.74	0.08	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.26
24	0.0	0.24	0.20	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.28
25	0.04	0.03	0.38	0.05	0.0	0.04	0.0	0.0	0.0	0.0	0.24	0.0
26	0.06	0.74	0.15	0.0	0.0	0.0	0.0	0.0	0.71	0.07	0.39	0.0
27	0.25	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.02	0.01
28	0.04	1.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.02	0.07
29	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
31	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20
TOTAL	6.32	4.69	3.68	2.06	1.58	2.58	0.01	1.10	1.85	2.53	2.31	4.73
STA AV												

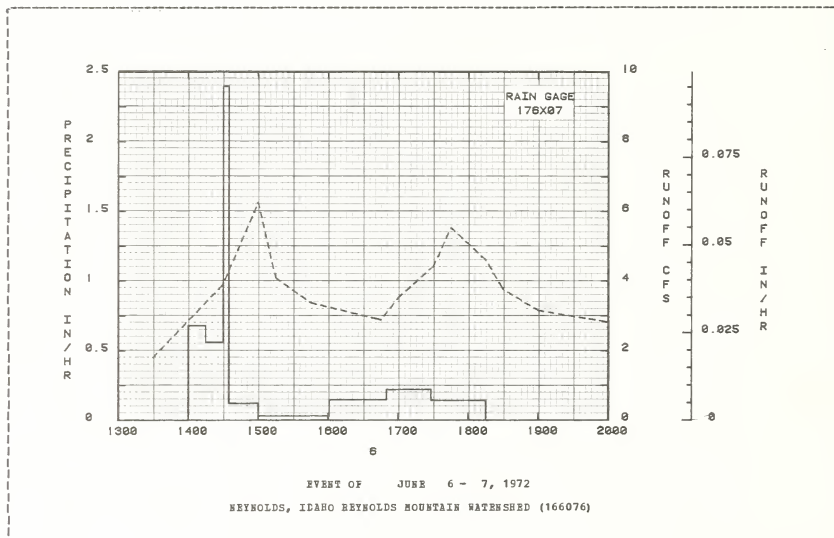
NOTES: Values are amounts from shielded recording gage 176507. STA AV do not apply to shielded rain gage records.

1972	MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDABO REYNOLDS MOUNTAIN WATERSHED (166076)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.028	0.025	0.270	0.213	0.725	2.650	0.413	0.033	0.012	0.019	0.038	0.038
2	0.028	0.025	0.190	0.424	1.050	2.391	0.363	0.030	0.012	0.018	0.028	0.032
3	0.028	0.025	0.407	0.454	1.453	2.425	0.356	0.029	0.012	0.017	0.035	0.030
4	0.027	0.025	0.274	0.593	1.798	2.095	0.310	0.028	0.012	0.023	0.078	0.028
5	0.026	0.025	0.198	0.959	1.811	1.759	0.284	0.026	0.020	0.021	0.042	0.027
6	0.026	0.025	0.275	0.954	1.987	2.340	0.278	0.025	0.017	0.021	0.037	0.028
7	0.026	0.024	0.275	0.677	2.068	2.268	0.245	0.023	0.015	0.020	0.038	0.028
8	0.026	0.024	0.215	0.552	1.757	1.885	0.219	0.021	0.013	0.020	0.033	0.028
9	0.026	0.024	0.223	0.528	1.746	1.875	0.202	0.023	0.014	0.031	0.033	0.028
10	0.026	0.024	0.339	0.501	1.872	1.859	0.153	0.023	0.015	0.030	0.032	0.028
11	0.026	0.024	0.373	0.463	1.986	1.340	0.174	0.020	0.026	0.026	0.032	0.028
12	0.026	0.024	0.368	0.437	2.202	1.178	0.149	0.017	0.018	0.023	0.031	0.028
13	0.026	0.024	0.530	0.416	2.393	1.109	0.120	0.020	0.016	0.022	0.030	0.028
14	0.026	0.024	0.434	0.395	2.678	1.159	0.109	0.048	0.016	0.022	0.029	0.028
15	0.026	0.024	0.395	0.408	2.907	1.223	0.100	0.037	0.015	0.028	0.030	0.028
16	0.026	0.024	0.449	0.447	2.906	1.182	0.090	0.021	0.012	0.023	0.028	0.028
17	0.026	0.024	0.540	0.388	2.829	1.068	0.080	0.021	0.012	0.022	0.028	0.028
18	0.026	0.023	0.677	0.360	2.410	0.562	0.074	0.019	0.012	0.022	0.027	0.037
19	0.026	0.023	0.470	0.339	2.375	0.843	0.073	0.021	0.015	0.050	0.027	0.073
20	0.026	0.023	0.368	0.340	2.436	0.813	0.073	0.022	0.014	0.062	0.025	0.058
21	0.026	0.023	0.336	0.363	2.009	0.783	0.073	0.020	0.013	0.045	0.022	0.106
22	0.026	0.023	0.383	0.358	1.967	0.723	0.067	0.018	0.014	0.038	0.021	0.109
23	0.026	0.023	0.415	0.422	1.789	0.653	0.059	0.017	0.018	0.033	0.027	0.042
24	0.026	0.023	0.334	0.541	1.783	0.602	0.053	0.017	0.022	0.028	0.021	0.073
25	0.026	0.023	0.296	0.458	1.708	0.555	0.048	0.013	0.021	0.030	0.026	0.060
26	0.026	0.023	0.269	0.451	1.813	0.531	0.046	0.013	0.038	0.026	0.099	0.053
27	0.026	0.024	0.249	0.675	2.060	0.517	0.041	0.012	0.055	0.025	0.079	0.049
28	0.026	0.119	0.237	1.056	2.437	0.492	0.039	0.012	0.022	0.022	0.052	0.044
29	0.026	0.429	0.229	0.940	2.686	0.460	0.036	0.012	0.020	0.033	0.027	0.042
30	0.026	0.026	0.218	0.659	2.768	0.461	0.037	0.012	0.015	0.023	0.041	0.042
31	0.026	0.026	0.211	0.845	2.845	0.435	0.035	0.013	0.013	0.013	0.040	0.040
MEAN	0.0262	0.0412	0.3370	0.5284	2.1024	1.2767	0.1482	0.0215	0.0182	0.0280	0.0371	0.0444
INCHES	0.194	0.285	2.487	3.773	15.512	9.116	1.064	0.158	0.130	0.207	0.265	0.327
STA AV	0.419	0.354	0.756	2.480	10.686	4.716	0.472	0.089	0.065	0.133	0.246	0.201

NOTES: To convert CFS to IN/DAY, multiply by 0.238017. STA AV based on 7 yr (1966-72) record period.

1972 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT CP JUNE 6 - 7, 1972											
RG 176X07			RG 176X07								
6- 6	0.0	0.647	6- 6	1400	0.0	0.0	6- 6	1330	1.813	0.0	
				1415	0.6800	0.17		1430	3.913	0.0284	
				1430	0.5600	0.31		1500	6.257	0.0536	
				1435	2.4000	0.51		1515	4.077	0.0664	
				1500	0.1200	0.56		1545	3.372	0.0849	
WATERSHED CONDITIONS:				1601	0.0295	0.59		1645	2.877	0.1159	
The event is combined snow-				1650	0.1469	0.71		1700	3.521	0.1238	
selt and rain.				1728	0.2211	0.85		1730	4.417	0.1435	
				1815	0.1404	0.96		1745	5.535	0.1558	
								1815	4.593	0.1809	
								1830	3.754	0.1912	
								1900	3.154	0.2083	
								2000	2.810	0.2379	
								2100	2.615	0.2648	
								2400	2.309	0.3380	
							6- 7	400	1.917	0.4218	
								1000	1.723	0.5301	

NOTES: To convert CFS to IN/HR, multiply by 0.009917.



REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa, Idaho; a tributary to Reynolds Creek, a tributary to the Snake River. Lat. 43 deg. 8 min. 53 sec. N.; Long. 116 deg. 44 min. 14 sec. W.

AREA: 33.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1972	P	3.98	2.44	2.58	1.18	0.82	3.34	0.0	1.16	1.88	3.42	1.88	5.34	28.02													
	Q	0.530	0.237	0.137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.904														
STA AV	P	2.80	1.06	1.59	1.03	0.93	1.95	0.27	0.92	1.12	1.54	1.64	2.19	17.04													
	Q	0.181	0.047	0.123	0.005	0.0	0.002	0.0	0.0	0.0	0.0	0.001	0.358														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972		1-22	0.063	1-22	0.053	1-22	0.097	1-22	0.205	1-22	0.291	1-22	0.328	1-20	0.379	1-18	0.518										
MAXIMUMS FOR PERIOD OF RECORD																											
		1-22	0.063	1-22	0.053	1-22	0.097	1-22	0.205	1-22	0.291	1-22	0.328	1-20	0.379	1-18	0.518										
1972		1972		1972		1972		1972		1972		1972		1972		1972											

NOTES: Watershed conditions: Watershed is entirely sagebrush rangeland used almost exclusively for cattle grazing. Vegetation consists of bluebunch wheatgrass, Sandberg bluegrass, cheatgrass, yarrow, and little sagebrush. 90% of the area has a vegetative cover of 0-25% and 10% of the area has a vegetative cover of 26-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.014-6. Records began: Precipitation: 1963; Runoff: 1967. Precipitation: Computed Actual amounts from one rain gage. Station average precipitation amounts are based on 1968-72 record period. Station average runoff amounts are based on 1967-72 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles W.E. of watershed.

1972 DAILY AIR TEMPERATURE (degrees F)													REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)												
Day	Jan max min	Feb max min	Mar max min	Apr max min	May max min	Jun max min	Jul max min	Aug max min	Sep max min	Oct max min	Nov max min	Dec max min													
1	35	28	15	5	34	23	54	41	54	43	79	59	79	56	81	60	75	53	65	54	41	35	53	42	
2	34	12	18	5	42	35	52	33	65	43	77	61	69	50	78	58	77	60	66	51	46	37	46	31	
3	17	8	20	9	37	25	50	30	64	46	74	57	73	51	77	55	78	61	68	49	52	41	35	16	
4	24	10	26	10	45	27	50	49	65	49	73	53	82	57	83	61	78	61	56	47	44	36	16	0	
5	31	21	33	22	52	43	56	46	64	46	78	58	82	67	88	65	63	51	54	43	38	29	5	-4	
6	40	30	38	31	51	25	52	39	63	49	77	56	87	61	90	69	61	43	55	39	41	30	19	2	
7	38	26	38	30	44	27	46	34	65	40	72	54	83	55	90	67	65	43	45	43	30	16	4		
8	29	19	40	29	54	37	52	33	66	53	81	62	93	71	79	57	63	49	36	31	5	-8			
9	33	26	35	24	56	46	42	27	53	34	65	52	75	49	89	68	61	47	58	45	42	32	4	-8	
10	30	25	34	21	56	43	49	32	56	34	52	39	73	52	86	67	56	45	57	43	39	31	0	-10	
11	38	29	38	29	50	38	48	34	59	37	53	36	76	59	92	68	47	41	57	44	35	32	11	-4	
12	34	19	43	33	51	42	38	24	63	43	62	42	84	61	85	65	54	39	61	45	38	31	17	0	
13	21	16	35	25	49	36	33	21	69	44	65	44	85	65	72	59	59	41	60	47	41	31	20	10	
14	31	15	33	23	50	32	46	27	79	59	74	51	78	55	80	56	65	46	54	43	39	33	21	5	
15	31	20	38	32	53	36	56	37	72	58	75	55	79	56	75	54	70	51	52	41	40	33	30	2	
16	38	18	41	35	58	41	47	23	73	56	76	56	81	59	78	49	76	59	55	43	36	32	39	15	
17	39	33	46	35	63	45	34	20	58	37	71	52	79	55	65	49	77	55	57	42	37	30	39	31	
18	40	37	47	38	54	32	34	22	54	35	64	48	86	60	77	53	77	53	56	41	36	31	45	36	
19	40	37	52	40	45	33	46	22	56	41	65	45	66	51	75	59	58	40	48	43	33	24	40	36	
20	41	35	47	43	49	33	54	33	61	41	77	50	62	42	75	55	59	40	59	41	34	25	44	35	
21	39	33	45	32	57	42	51	31	44	36	69	49	64	46	75	57	73	45	56	45	33	22	45	41	
22	37	28	42	27	60	36	47	24	52	40	75	53	70	45	77	51	63	41	57	43	33	19	44	32	
23	35	21	32	24	40	28	61	34	61	42	64	48	83	50	67	47	50	38	53	34	32	19	43	34	
24	31	18	28	24	45	31	53	41	58	43	66	24	85	61	70	50	43	33	48	33	33	24	35	30	
25	31	21	31	22	31	16	42	60	59	36	61	43	86	30	75	55	47	30	59	41	43	30	42	30	
26	26	14	42	30	26	18	50	28	65	43	69	50	82	64	80	61	46	43	47	29	43	27	50	38	
27	20	11	47	40	33	16	62	37	71	46	71	49	81	58	83	64	48	35	43	26	31	22	45	29	
28	19	14	47	37	34	25	66	51	77	52	84	58	86	61	85	65	54	37	40	27	30	23	29	22	
29	24	14	37	25	40	23	60	25	80	56	83	63	93	73	78	61	57	35	31	21	43	36	26	20	
30	24	12			49	28	40	21	82	60	81	61	81	69	77	61	63	48	33	21	47	36	29	21	
31	26	9			55	36			82	65			89	64					39	27					
AV.	31	21	37	27	47	32	49	33	64	45	71	51	79	57	80	59	63	46	54	40	39	30	30	18	
MEAN	26.4	31.8	35.9	40.9	54.3	60.7	68.1	69.4	54.1	47.0	34.2	23.6													
STA AV	33	23	39	27	43	29	47	31	61	41	68	49	81	60	80	59	66	48	52	37	41	29	32	21	

NOTES: Station data taken from hygrothermograph record at Station 127X07. STA AV based on 6 yr (1967-72) record period.

1972 DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.22	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.28	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.04	0.0	0.20	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.12
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.36	0.12
5	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0
6	0.0	0.0	0.0	0.02	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.30
7	0.02	0.0	0.0	0.0	0.0	1.44	0.0	0.0	0.0	0.0	0.0	0.16
8	0.0	0.0	0.04	0.0	0.0	0.24	0.0	0.0	0.0	0.18	0.0	0.08
9	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.02	0.0	0.46	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.04	0.0	0.06	0.0	0.0
11	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.52	0.08	0.08	0.0
12	0.56	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30
13	0.06	0.48	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.04	0.0	0.22	0.02	0.0
16	0.0	0.0	0.0	0.24	0.0	0.02	0.0	0.0	0.0	0.08	0.06	0.0
17	0.04	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.30
18	1.00	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.28
19	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.36	0.02	1.80	0.84	0.34
20	0.04	0.0	0.0	0.0	0.22	0.0	0.0	0.04	0.0	0.0	0.0	0.0
21	0.28	0.0	0.0	0.42	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.56	0.26	0.0	0.0	0.02	0.0	0.0	0.0	0.02	0.0	0.0	0.24
23	0.16	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0
24	0.0	0.06	0.08	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.16
25	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0
26	0.02	0.14	0.26	0.0	0.0	0.0	0.0	0.0	0.50	0.16	0.20	0.0
27	0.12	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.06
28	0.0	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.16
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
31	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62
TOTAL	3.98	2.44	2.58	1.18	0.82	3.34	0.0	1.16	1.68	3.42	1.88	5.34
STA AV	2.80	1.06	1.59	1.03	0.93	1.95	0.27	0.92	1.12	1.54	1.64	2.19

NOTES: Values are "actual" amounts from a pair of recording gages (shielded and unshielded) 127407. "Actual" amounts were computed as per relationship developed by R. S. Bacon, "Computing Actual Precipitation", Proceedings of WHO-IES Symposium, Gailo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 5 yr (1968-72) record period.

1972 DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.18	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.82	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.16	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.28	0.08
5	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0
6	0.0	0.0	0.0	0.02	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.18
7	0.02	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0	0.10
8	0.0	0.0	0.04	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.14	0.04
9	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.02	0.0	0.38	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.04	0.0	0.06	0.0	0.0
11	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.48	0.08	0.08	0.0
12	0.38	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20
13	0.04	0.22	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.02	0.04	0.0
15	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.02	0.0	0.24	0.02	0.0
16	0.0	0.0	0.0	0.10	0.0	0.02	0.0	0.0	0.0	0.08	0.06	0.0
17	0.02	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.66
18	0.70	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.12
19	0.0	0.0	0.12	0.0	0.12	0.0	0.0	0.38	0.02	1.66	0.60	0.10
20	0.04	0.0	0.0	0.0	0.20	0.0	0.0	0.04	0.0	0.0	0.0	0.0
21	0.28	0.0	0.0	0.38	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.16	0.12	0.0	0.02	0.0	0.0	0.0	0.02	0.0	0.0	0.08	0.0
23	0.14	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16
24	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.06
25	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0
26	0.02	0.10	0.08	0.0	0.0	0.0	0.0	0.0	0.50	0.08	0.20	0.0
27	0.12	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.02
28	0.0	0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.04
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
31	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20
TOTAL	3.44	1.42	1.74	0.78	0.72	3.28	0.0	1.08	1.82	2.88	1.50	2.74
STA AV												

NOTES: Values are amounts from unshielded recording gage 127407. STA AV do not apply to unshielded rain gage records.

1972		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.22	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.90	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.04	0.0	0.0	0.18	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.32	0.10
5	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.02	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.24
7	0.02	0.0	0.0	0.0	0.0	0.0	1.42	0.0	0.0	0.0	0.0	0.0	0.14
8	0.0	0.0	0.0	0.04	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.16	0.06
9	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.02	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.04	0.0	0.06	0.0	0.0
11	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.50	0.08	0.08	0.0
12	0.48	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26
13	0.06	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.02	0.04	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.02	0.0	0.24	0.02	0.0
16	0.0	0.0	0.0	0.0	0.16	0.0	0.02	0.0	0.0	0.0	0.08	0.08	0.0
17	0.02	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.76
18	0.86	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.20
19	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.34	0.02	1.72	0.72	0.24
20	0.04	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.04	0.0	0.0	0.0	0.0
21	0.28	0.0	0.0	0.0	0.40	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.56	0.22	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.02	0.0	0.0	0.18
23	0.16	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28
24	0.0	0.06	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.10
25	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0
26	0.02	0.12	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.12	0.20	0.0
27	0.12	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.04
28	0.0	0.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.10
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04
31	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38
TOTAL		3.74	1.94	2.16	0.56	0.78	3.30	0.0	1.14	1.86	3.14	1.70	4.02
STA AV													

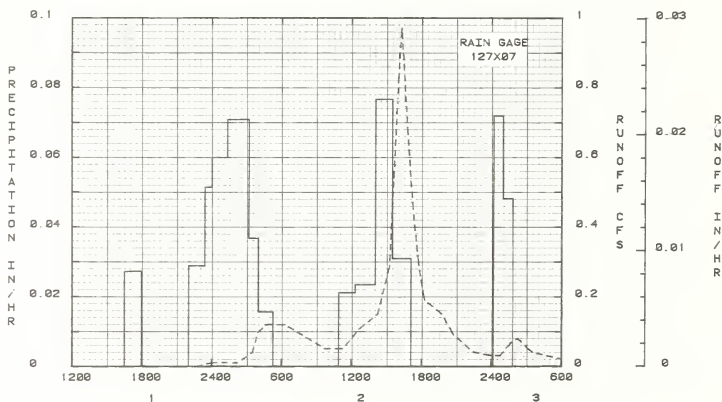
NOTES: Values are amounts from shielded recording gage 127507. STA AV do not apply to shielded rain gage records.

1972		MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.010	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.105	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.043	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.069	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.455	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.016	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.008	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.008	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.007	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.005	0.135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.003	0.075	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.002	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0237	0.0113	0.0061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.530	0.237	0.137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.181	0.047	0.123	0.005	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.001	

NOTES: To convert CFS to IN/DAY, multiply by 0.721262. STA AV based on 6 yr (1967-72) record period.

1972 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF MARCH 1 - 4, 1972											
EG 127X07											
3- 1	EG 127X07 0.0	0.002	3- 1	1630	0.0	0.0	3- 1	2245	0.003	0.0	
				1758	0.0273	0.04		2400	0.006	0.0002	
				2202	0.0	0.04		215	0.012	0.0008	
				2325	0.0289	0.08		330	0.038	0.0017	
				2400	0.0514	0.11		400	0.058	0.0027	
WATERSEED CONDITIONS:											
Event preceded by approxi-			3- 2	120	0.0600	0.19	445	0.116	0.0051		
mately .60 inches of rain on				310	0.0709	0.32	615	0.116	0.0103		
2/28/72. It is combined				359	0.0367	0.35	945	0.048	0.0189		
snowmelt and rain event.				516	0.0156	0.37	1115	0.048	0.0211		
				1055	0.0	0.37	1245	0.113	0.0247		
			1220	0.0212	0.40	1415	0.147	0.0306			
			1402	0.0235	0.44	1515	0.287	0.0371			
			1528	0.0767	0.55	1600	0.844	0.0498			
			1705	0.0309	0.60	1615	0.368	0.0566			
			3- 3	10	0.0	0.60	1645	0.680	0.0690		
			100	0.0720	0.66	1715	0.455	0.0775			
			150	0.0480	0.70	1745	0.287	0.0631			
						1815	0.187	0.0867			
						1945	0.147	0.0542			
						2045	0.086	0.0577			
						2230	0.038	0.1010			
						2400	0.032	0.1026			
						45	0.027	0.1033			
						145	0.067	0.1047			
						215	0.077	0.1058			
						330	0.038	0.1080			
						745	0.015	0.1114			
						1115	0.012	0.1128			
						1715	0.012	0.1150			
						2400	0.008	0.1170			
			3- 4	1615	0.004	0.1199					
				1745	0.009	0.1202					
				2045	0.007	0.1209					

NOTES: To convert CPS to IN/DAY, multiply by 0.030053.



EVENT OF MARCH 1 - 4, 1972
REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)

LOCATION: Washita River above Anadarko, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Caddo, Kiowa, Washita, Custer, Beckham, and Roger Mills Counties, Okla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--NW 1/4 sec. 15, T. 7 N., R. 10 W., lat. 35 deg. 05 min. N., long. 98 deg. 14 min. W.; edge of Anadarko, Okla., 35 feet upstream from U.S. Highway 201 bridge over Washita River; at river mile 305.2, approximately 8.1 miles upstream from confluence of Sugar Creek.

AREA: 2339800.00 acres 3656.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										CHICKASAW, OKLAHOMA		WATERSHED 100 AT ANADARKO				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1972	Q	0.027	0.022	0.019	0.024	0.079	0.043	0.017	0.006	0.018	0.007	0.036	0.017	0.316		
	Q	0.040	0.037	0.043	0.052	0.128	0.125	0.050	0.038	0.094	0.078	0.083	0.047	0.814		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge				Maximum Volume for Selected Time Interval											
	Date	Date	1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1972	5-15	0.001	5-15	0.001	5-15	0.001	5-14	0.003	5-14	0.006	5-14	0.011	5-14	0.019	4-28	0.040
MAXIMUMS FOR PERIOD OF RECORD																
	9-23	0.004	9-23	0.004	9-23	0.009	9-23	0.026	9-23	0.052	9-23	0.100	9-23	0.188	9-23	0.384
	1965		1965		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions not applicable. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 657-71. Since this is the inflow station to a study reach, precipitation data are not applicable. Runoff records began Oct. 1961. For long-time precipitation records, see National Weather Service records at Chickasaw, Okla.

1972 MEAN DAILY DISCHARGE (cfs)													CHICKASAW, OKLAHOMA WATERSHED 100 AT ANADARKO	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	106.5	72.0	71.7	80.1	594.9	202.3	49.1	6.9	20.6	231.8	55.3			
2	106.2	77.1	71.9	38.8	956.0	95.1	43.8	31.7	21.3	17.8	727.5	50.0		
3	103.5	72.5	71.9	38.4	882.0	79.4	39.4	29.2	22.1	17.4	765.4	49.3		
4	98.3	70.8	71.4	37.3	241.7	82.1	39.6	37.8	32.0	18.0	309.8	50.0		
5	91.9	74.5	68.3	38.8	163.6	76.5	36.9	39.9	450.3	16.4	149.1	53.8		
6	89.7	70.3	69.4	41.2	116.4	68.2	75.6	38.2	154.5	16.2	110.1	51.6		
7	82.7	75.5	69.7	39.0	95.5	53.7	94.8	32.5	71.7	16.4	101.2	51.2		
8	83.9	81.5	69.7	38.0	78.1	52.6	80.5	46.6	54.7	18.0	33.8	51.2		
9	88.4	83.3	69.7	34.3	72.6	50.9	59.3	33.9	49.5	17.3	46.6	51.2		
10	92.8	86.6	69.7	33.3	83.9	47.2	26.0	21.3	46.7	16.0	44.7	51.2		
11	93.4	83.0	69.7	31.4	88.2	42.5	39.2	23.9	126.3	14.1	45.3	51.2		
12	93.1	79.4	69.7	32.6	97.7	40.3	46.8	21.5	201.7	12.9	45.6	51.2		
13	90.9	78.8	69.4	27.6	120.1	39.4	351.7	27.4	70.0	11.0	44.1	51.2		
14	87.8	78.8	67.3	23.2	745.3	42.7	215.4	24.6	52.0	9.3	35.6	51.2		
15	82.1	76.8	63.5	30.6	1019.6	315.7	88.5	18.6	43.6	8.4	37.4	51.2		
16	80.6	78.5	60.6	30.4	522.6	1007.5	54.9	13.2	34.8	7.6	43.4	51.2		
17	77.4	76.5	55.8	28.0	273.5	571.0	34.2	8.8	43.0	6.9	48.2	51.2		
18	78.2	74.5	54.8	28.0	208.8	345.6	27.9	2.8	28.8	7.0	55.8	51.6		
19	77.7	74.2	52.5	30.8	171.6	216.8	42.8	1.0	16.1	8.5	56.6	54.1		
20	84.2	76.5	49.7	34.1	143.1	134.1	57.7	0.5	19.7	11.8	52.9	51.6		
21	94.1	74.2	49.5	31.0	128.4	95.3	17.7	0.4	22.7	18.9	47.9	51.6		
22	93.4	76.2	50.5	29.0	113.1	72.4	14.8	1.5	21.1	22.4	45.8	55.6		
23	90.9	74.5	51.2	26.6	103.5	68.1	18.7	3.8	20.0	26.1	46.5	62.7		
24	88.1	73.9	50.9	25.9	95.0	70.9	23.6	4.7	20.8	27.9	53.2	66.2		
25	83.6	71.5	49.5	23.9	94.7	78.9	21.3	5.3	20.8	23.8	60.7	61.9		
26	79.7	69.7	48.8	26.7	88.8	74.0	19.4	5.5	20.5	27.4	64.8	61.1		
27	80.6	67.8	45.8	44.7	83.0	64.9	16.3	6.0	24.4	30.3	65.4	60.6		
28	78.3	67.8	43.6	99.1	78.1	54.9	14.0	24.5	26.1	30.8	65.4	57.6		
29	73.1	69.7	40.9	727.5	93.9	54.6	12.0	22.2	25.9	33.0	65.1	57.3		
30	72.8		41.6	643.3	235.3	52.9	10.0	39.8	23.5	44.0	62.5	59.1		
31	67.3		40.5		386.2		7.8	28.8		106.2		30.3		
MEAN	86.81	75.51	59.04	78.47	250.81	141.68	54.19	19.45	59.56	21.38	118.72	53.37		
INCHES	0.027	0.022	0.019	0.024	0.079	0.043	0.017	0.006	0.018	0.007	0.036	0.017		
STA AV	0.040	0.037	0.043	0.052	0.128	0.125	0.050	0.038	0.094	0.078	0.083	0.047		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. To convert discharge in cfs to IN/DAY, multiply by 0.00001017. To convert discharge in inches to AC-FT, multiply by 194,363. STA AV based on 12 yr (1961-72) record period.

CHICKASHA, OKLAHOMA WATERSHED 200 AT VERDEN

LOCATION: Washita River above Verden, Okla.; Southwest Central Okla. and Texas Panhandle; in Caddo, Canadian, Kiowa, Washita, Custer, Beckham, and Roger Mills Counties, Okla.; and Beaphill, Wheeler, and Gray Counties, Tex.; Washita River; Red River Basin. GAGING STATION--S81/4 sec. 7, T. 7 N., R. 8 W., lat. 35 deg. 05 min. N., long. 98 deg. 05 min. W.; North edge of Verden, Okla. at county road bridge over Washita River; at river mile 263.4, approximately 8.4 miles upstream from confluence with Ionine Creek.

AREA: 2612500.00 acres 4082.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 200 AT VERDEN									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual									
1972	P	0.08	0.32	0.34	2.61	3.08	1.05	1.28	1.78	0.73	5.86	1.77	0.76	19.66									
	Q	0.028	0.021	0.017	0.020	0.073	0.039	0.016	0.005	0.014	0.006	0.034	0.015	0.288									
STA AV	P	0.55	0.91	1.24	2.62	3.70	3.34	1.78	2.72	4.30	2.03	1.68	1.04	25.90									
	Q	0.043	0.039	0.042	0.052	0.123	0.125	0.047	0.034	0.089	0.077	0.081	0.049	0.802									
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days							
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.						
1972		5-15	0.000	5-15	0.000	5-15	0.001	5-15	0.002	5-15	0.005	5-14	0.016	4-29	0.036								
MAXIMUMS FOR PERIOD OF RECORD																							
		5- 6	0.002	5- 7	0.002	9-24	0.005	9-24	0.019	9-24	0.038	9-24	0.075	9-24	0.141	9-21	0.344						
		1969		1969		1965		1965		1965		1965		1965		1965							

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1971 survey; Sowed crop - 26%; row crop - 4%; alfalfa - 9%; pasture and range - 48%; and miscellaneous - 13%. For map of watershed see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 66 rain gages for the reach between stations at Anadarko and Verden. Precipitation records began Oct. 1961; Runoff records began Sept. 1961. Max. for Period of Records for the 6 hrs, 12 hrs, 1 day and 2 days has been revised due to reevaluation of data. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED 200 AT VERDEN	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.03	0.02	0.0	0.0	0.0	0.0	0.08	0.0	0.17	0.0	0.12	0.0	
2	0.0	0.03	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	
4	0.02	0.0	0.0	0.0	0.13	0.0	0.23	0.08	0.29	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
6	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.04	0.0	0.0	0.02	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.30	0.01	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	
10	0.0	0.07	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.20	0.0	0.0	0.46	0.02	0.17	0.0	0.0	0.0	0.0	0.21	
12	0.0	0.0	0.0	0.0	0.97	0.03	0.06	0.0	0.0	0.0	0.51	0.02	
13	0.0	0.0	0.0	0.0	0.0	0.05	0.02	0.10	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.03	
15	0.0	0.0	0.0	0.54	0.0	0.04	0.0	0.0	0.01	0.0	0.0	0.02	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.01	0.01	0.02	0.60	0.0	
19	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.01	0.21	0.0	0.0	0.0	0.0	0.06	0.66	0.03	0.01	
21	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.62	0.02	2.21	0.19	0.0	
22	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.13	0.0	0.04	0.0	0.0	
23	0.0	0.0	0.33	0.0	0.03	0.07	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.23	0.0	0.0	0.26	0.0	
25	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.01	0.0	0.0	0.92	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
27	0.02	0.0	0.0	0.13	0.13	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
28	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.21	0.12	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.65	1.10	0.04	0.0	0.0	0.0	0.0	0.0	0.46	
30	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.02	0.0	1.45	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.43	0.0	0.0	
TOTAL	0.08	0.32	0.34	2.61	3.08	1.05	1.28	1.78	0.73	5.86	1.77	0.76	
STA AV	0.55	0.91	1.24	2.62	3.70	3.34	1.78	2.72	4.30	2.03	1.68	1.04	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values Thiessen weighted average of 66 rain gages on the watershed. STA AV based on 12 yr (1961-72) record period.

LOCATION: Washita River Watershed above Chickasha, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Custer, Beckham, and Roger Mills Counties, Okla.; and Beaufort, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--221/4 sec. 23, T. 7 N., R. 7 W., lat. 35 deg. 05 min. N.; long. 97 deg. 54 min. W.; 1 mile Northeast of Chickasha, Okla., at H. E. Bailey Turnpike bridge over Washita River at river mile 256.5, approximately 1.3 miles downstream from confluence of Line Creek.

AREA: 2768000.00 acres 3425.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1972	P	0.08	0.40	0.52	3.15	3.01	1.12	0.99	1.80	0.58	7.30	2.23	0.61	21.79															
	Q	0.029	0.023	0.017	0.017	0.073	0.037	0.012	0.003	0.012	0.011	0.038	0.016	0.287															
STA AV	P	0.65	1.05	1.29	2.84	3.65	3.10	1.70	2.81	3.64	2.19	1.94	0.96	25.82															
	Q	0.035	0.032	0.037	0.056	0.133	0.090	0.040	0.033	0.072	0.068	0.066	0.043	0.705															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
Maximum Discharge														Maximum Volume for Selected Time Interval															
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972		10-31	0.000	10-31	0.000	10-31	0.001	10-31	0.002	10-31	0.004	5-15	0.008	5-15	0.014	4-30	0.032												
MAXIMUMS FOR PERIOD OF RECORD																													
		4-12	0.003	5-29	0.002	4-12	0.005	4-12	0.017	0.015	5- 7	0.029	5- 6	0.055	5- 6	0.102	5- 5	0.329											
		1967		1970		1967		1967			1969		1969		1969		1969												

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1971 survey: sowed crop - 36%; row crop - 2%; alfalfa - 7%; pasture and range - 44%; and miscellaneous - 11%. For map of watershed see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA NESC. Pub. 1216, p. 69.7-21, (composite). The station at Chickasha (4th St.) Watershed 400 was discontinued in 1967, therefore, causing a new Thiessen weighted average for this watershed. Precipitation data obtained from a Thiessen weighted average of 42 gages for the reach between Verden (200) and Chickasha (500). Precipitation records began Oct. 1961; runoff records began Jan. 1964. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.12	0.0	0.16	0.0												
2	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0												
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.21	0.0	0.30	0.0	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
6	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.01	0.0	0.0	0.02	0.0												
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.02	0.0	0.0	0.0												
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0												
10	0.0	0.13	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0												
11	0.0	0.23	0.0	0.0	0.0	0.03	0.0	0.11	0.0	0.0	0.0	0.0	0.0												
12	0.0	0.0	0.0	0.0	0.0	1.73	0.10	0.05	0.0	0.0	0.0	0.79	0.02												
13	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.09	0.20	0.0	0.0	0.0	0.0												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.01	0.0	0.02												
15	0.0	0.0	0.0	0.0	0.84	0.0	0.36	0.0	0.0	0.01	0.0	0.0	0.01												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04												
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.01	0.01	0.04	0.74	0.0												
19	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
20	0.0	0.0	0.15	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.04	0.02												
21	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.38	0.10	2.84	0.18	0.0												
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.06	0.0	0.0												
23	0.0	0.0	0.37	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.29	0.0	0.0	0.25	0.0												
25	0.0	0.0	0.0	0.0	0.02	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0												
26	0.03	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0												
27	0.02	0.0	0.0	0.0	0.47	0.01	0.04	0.0	0.0	0.0	0.0	0.01	0.0												
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.02	0.0	0.0	0.0												
29	0.0	0.0	0.0	0.39	1.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.36												
30	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.09	0.0	2.04	0.0	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.89	0.0	0.0												
TOTAL	0.08	0.40	0.52	3.15	3.01	1.12	0.99	1.80	0.58	7.30	2.23	0.61													
STA AV	0.65	1.05	1.29	2.84	3.65	3.10	1.70	2.81	3.64	2.19	1.94	0.96													

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69-007) of this publication. Daily precipitation values Thiessen weighted average of 42 rain gages on the watershed. STA AV based on 12 yr (1961-72) record period.

1972		NEAR DAILY DISCHARGE (cfs)				CHICKASAW, OKLABOMA				WATERSHED 500 NEAR CHICKASAW			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	133.49	96.57	81.62	45.04	617.02	337.75	46.81	4.55	21.20	14.70	611.82	70.80	
2	127.98	88.17	80.27	44.65	592.30	213.50	47.40	3.13	15.98	15.84	277.03	69.53	
3	125.61	84.62	81.99	45.13	819.50	131.66	46.92	1.50	17.02	13.96	590.72	64.95	
4	119.18	84.45	80.39	44.47	463.84	100.75	42.18	1.65	19.47	12.13	611.40	61.93	
5	102.57	97.75	77.23	40.00	289.59	93.32	36.99	9.06	18.35	9.17	310.01	59.29	
6	104.11	94.24	76.50	39.89	212.16	89.83	32.16	14.89	247.55	7.88	166.62	57.02	
7	108.12	93.87	74.82	40.35	158.07	81.20	28.08	21.11	176.48	7.93	124.53	56.70	
8	116.85	85.81	72.91	38.88	129.20	68.65	68.92	25.49	73.69	7.44	113.28	56.70	
9	108.81	93.21	71.26	36.06	114.78	56.13	81.22	29.97	56.37	7.59	80.53	56.70	
10	109.74	94.36	70.80	35.97	98.40	54.68	66.12	46.31	45.30	7.35	54.70	56.70	
11	111.14	97.13	69.52	34.57	97.80	53.02	46.43	26.88	40.09	7.25	59.64	56.70	
12	111.98	100.86	69.64	31.22	319.37	49.03	23.34	12.80	38.98	6.98	69.57	56.70	
13	111.00	102.07	67.68	26.88	250.19	43.80	23.48	10.15	160.08	6.67	171.96	56.70	
14	107.43	100.99	67.22	23.38	139.95	44.73	170.90	13.73	87.50	4.92	85.03	56.70	
15	96.63	97.92	66.42	46.01	682.74	56.68	219.07	13.94	53.73	3.65	68.21	56.70	
16	98.05	94.10	65.51	40.58	864.75	234.99	101.27	13.47	38.68	4.11	58.88	56.70	
17	116.21	92.40	64.49	45.31	528.24	821.04	70.24	8.62	30.26	4.15	60.48	56.70	
18	112.86	94.23	62.59	36.88	325.58	513.76	39.20	6.23	24.40	3.67	76.39	58.26	
19	103.05	92.79	59.95	30.47	247.67	324.05	26.14	4.52	25.67	3.42	94.61	67.96	
20	97.53	90.84	61.04	48.57	203.83	205.80	19.88	2.90	23.72	3.74	91.80	70.81	
21	96.86	89.55	62.04	49.39	169.73	136.08	30.77	1.92	13.37	55.18	79.87	65.98	
22	102.36	87.64	58.54	47.39	145.09	103.34	31.58	1.44	11.72	43.09	69.22	62.93	
23	107.81	85.86	56.18	36.82	127.90	83.00	12.03	1.06	14.27	35.43	65.06	61.48	
24	106.16	85.61	60.18	29.57	115.43	72.54	8.51	0.94	14.31	26.89	64.38	63.27	
25	100.99	85.61	59.94	28.14	103.20	71.04	7.20	1.86	13.70	22.29	63.95	67.80	
26	100.32	85.36	57.56	27.58	96.60	74.24	11.26	1.67	12.57	23.76	69.42	69.41	
27	100.20	83.99	54.70	153.27	94.45	69.31	11.69	1.46	12.22	23.22	71.62	66.65	
28	94.76	84.36	50.14	98.49	90.72	63.30	7.41	1.48	11.25	23.61	71.15	65.17	
29	94.23	83.49	46.32	71.93	112.03	55.57	3.60	1.74	11.53	27.19	70.51	67.45	
30	98.93	84.65	64.77	115.03	50.75	2.98	2.98	3.05	12.58	175.96	70.33	70.34	
31	110.72	44.55		179.86		2.76	10.47			619.03		34.82	
MEAN	107.60	91.30	65.05	65.32	274.35	145.15	44.08	9.61	44.74	39.62	149.10	61.28	
INCHES	0.029	0.023	0.017	0.017	0.073	0.037	0.012	0.003	0.012	0.011	0.038	0.016	
STA AV	0.035	0.032	0.037	0.056	0.133	0.090	0.040	0.033	0.072	0.068	0.066	0.043	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000008599. To convert discharge in inches to AC-FE, multiply by 230,667. STA AV based on 9 yr (1964-72) record period.

CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX

LOCATION: Washita River Watershed above Alex, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Custer, Pecos and Roger Mills Counties, Okla.; and Resphill, Wheeler, and Gar Counties, Tex.; Washita River, Red River Basin. GRADING STATION—SW 1/4 sec. 7, T. 5 N., R. 5 W., lat. 34 deg. 55 min. N., long. 97 deg. 46 min. W., 1 mile north of Alex, Okla.; at county road bridge over Washita River at river mile 226.5 approximately 3.8 miles downstream from confluence of Winter Creek.

AREA: 3061120.00 acres 4783.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1972	P 0.11	0.52	0.51	4.95	3.26	0.96	1.13	1.34	1.06	9.15	2.39	0.64	26.02				
	Q 0.034	0.027	0.022	0.031	0.082	0.039	0.011	0.001	0.009	0.041	0.073	0.022	0.392				
STA AV	P 1.09	1.34	1.43	2.79	4.26	2.13	1.96	2.89	4.00	2.57	1.83	1.03	27.33				
	Q 0.046	0.042	0.047	0.069	0.133	0.136	0.045	0.036	0.084	0.079	0.084	0.051	0.852				
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	11- 1	0.002	11- 1	0.002	10- 31	0.003	10- 31	0.005	10- 31	0.017	10- 31	0.030	10- 30	0.053	10- 30	0.080	
MAXIMUMS FOR PERIOD OF RECORD																	
5- 7	0.003	5- 7	0.003	5- 7	0.006	9-20	0.019	9-20	0.035	5- 7	0.064	5- 6	0.114	5- 5	0.336		
1969		1969		1969		1962		1962		1969		1969		1969			

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1971 survey; sowed crop - 14%; row crop - 5%; alfalfa - 9%; pasture and range - 65%; and miscellaneous - 7%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69, 7-21. Precipitation records began Oct. 1961; Runoff records began Sept. 1961. STA AV (P) values are a Thiessen weighted average of 21 gages for 1963-69 and for 77 gages for 1970-72 on the reach from Tabler to Alex., Okla., for a total period of record (1963-72). For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY AIR TEMPERATURE (degrees F)													CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	44	25	46	39	64	50	64	40	83	48	79	64	92	75	84	63	80	70	78	50	80	48	66	38
2	39	32	52	33	59	45	57	41	64	39	71	62	92	74	83	61	90	70	86	64	53	40	66	46
3	44	30	59	28	59	44	52	43	74	38	79	68	94	72	85	59	92	71	85	61	58	38	64	38
4	27	23	68	38	53	38	56	36	77	42	87	67	98	73	85	58	87	68	62	54	51	42	40	32
5	25	22	63	34	63	36	62	32	73	52	87	57	90	72	85	62	71	64	70	52	46	40	53	29
6	24	20	48	32	68	48	63	41	79	59	82	57	92	70	90	65	73	62	74	62	47	41	42	23
7	21	16	40	26	67	38	57	41	74	50	86	57	93	71	92	63	80	69	83	62	52	46	50	20
8	16	9	28	22	62	48	44	32	83	48	87	58	92	68	92	72	82	68	83	69	52	45	55	39
9	12	5	39	19	55	47	44	30	86	60	85	61	93	65	90	66	90	67	81	70	50	38	48	28
10	20	10	44	20	58	44	53	28	92	63	84	66	87	70	90	71	85	66	83	70	53	42	48	20
11	20	7	50	30	71	42	66	34	81	61	87	65	88	67	92	69	84	62	72	51	57	48	60	32
12	30	3	67	44	71	45	76	46	74	56	80	65	88	67	92	70	85	65	63	51	70	51	70	25
13	42	15	48	37	72	53	70	49	71	46	77	68	88	67	94	71	76	63	74	56	77	60	54	33
14	50	17	42	28	68	47	73	52	73	48	89	70	87	69	94	70	73	57	78	49	76	60	49	32
15	53	24	37	23	53	40	65	50	76	42	90	73	81	66	93	66	78	53	68	52	67	36	50	28
16	54	29	40	20	56	35	58	44	86	49	92	63	87	64	86	66	67	58	70	47	66	30	38	22
17	65	53	37	28	64	30	70	44	79	41	87	66	91	66	90	70	58	50	73	42	68	44	55	24
18	58	41	45	33	72	44	71	47	90	62	90	66	93	73	88	66	63	50	77	49	72	46	65	33
19	63	33	42	38	70	43	73	57	87	72	82	64	94	71	91	69	84	56	80	47	75	51	33	18
20	60	45	57	28	52	35	79	58	83	63	85	55	87	77	93	67	86	65	80	47	56	33	37	15
21	50	36	51	35	59	31	80	64	95	66	88	59	86	67	94	66	86	71	79	49	66	30	51	23
22	43	34	42	29	49	46	70	59	81	64	89	64	90	65	96	67	85	68	81	54	72	46	59	21
23	46	30	54	31	61	54	77	50	79	58	89	63	89	69	98	70	84	65	80	50	77	50	62	40
24	59	27	57	34	59	37	73	56	86	61	88	65	92	74	98	70	83	70	78	55	55	42	44	30
25	43	34	58	30	48	45	63	54	75	59	88	68	87	68	94	71	86	72	76	44	54	45	50	24
26	47	38	49	32	58	42	57	45	92	61	92	67	90	68	92	68	77	65	76	55	64	42	43	24
27	43	28	60	29	59	40	68	40	73	54	95	70	91	65	90	67	66	56	62	43	58	37	49	19
28	32	22	56	37	63	43	71	45	78	57	82	66	83	70	90	66	72	50	60	37	58	29	60	38
29	40	19	62	43	78	59	79	56	85	69	79	71	87	68	69	51	65	32	68	34	41	26		
30	58	26	63	46	71	66	78	59	91	72	86	70	88	69	72	52	66	48	64	35	44	22		
31	57	44			52	43			79	59			84	67	90	72			71	42				
AV.	41	26	49	30	61	43	65	46	80	54	86	64	89	70	91	67	79	62	75	52	62	42	51	28
MEAN	33.6		39.8		52.1		55.8		67.2		75.0		79.6		78.8		70.7		63.4		52.3		39.1	
STA AV	47	25	52	28	60	37	73	49	80	57	88	67	94	71	91	68	83	61	73	49	63	37	52	30

NOTES: Data recorded at CBS location station. AV and STA AV are rounded to the nearest degree. Mean rounded to the tenth of a degree. STA AV based on records from Sept. 1962 through Dec. 1972. For Chickasha Experiment Station Evaporation Data, see National Weather Service Climatological Data for Oklahoma.

1972	DAILY PRECIPITATION (inches)				CHICKASAW, OKLAHOMA				WATERSHED 700 NEAR ALEX			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.22	0.0
2	0.0	0.03	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.01	0.0	0.22	0.0	0.50	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
6	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.01	0.0	0.0	0.06	0.0
7	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.06	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0
10	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.38	0.0	0.0	0.03	0.0	0.02	0.01	0.0	0.0	0.0	0.13
12	0.0	0.0	0.0	0.0	1.58	0.04	0.07	0.03	0.0	0.0	0.94	0.02
13	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.12	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.95	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.01
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.02	0.04	0.72	0.0
19	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.17	1.14	0.0	0.0	0.0	0.0	0.02	0.31	0.02	0.07
21	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.08	0.14	3.22	0.18	0.0
22	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.18	0.0	0.07	0.0	0.0
23	0.0	0.34	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.42	0.0	0.0	0.20	0.0
25	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0
26	0.05	0.0	0.0	0.97	0.0	0.0	0.0	0.01	0.01	0.07	0.0	0.0
27	0.05	0.0	0.0	0.65	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.03	0.01	0.0	0.08	0.23	0.0	0.0	0.0
29	0.0	0.0	0.0	0.68	1.25	0.01	0.0	0.0	0.05	0.0	0.0	0.39
30	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.01	0.0	3.15	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.29	0.0	0.0
TOTAL	0.11	0.52	0.51	4.95	3.26	0.96	1.13	1.34	1.06	9.15	2.39	0.64
STA AV	1.09	1.34	1.43	2.79	4.26	2.13	1.96	2.89	4.00	2.57	1.83	1.03

NOTES: STA AV (P) values are a Thiessen weighted average of 21 gages for 1963-69 and for 77 gages for 1970-72.
STA AV based on 10 yr for total period of record (1963-72).

1972	MEAN DAILY DISCHARGE (cfs)				CHICKASAW, OKLAHOMA				WATERSHED 700 NEAR ALEX			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	169.9	133.8	102.1	66.8	853.3	257.3	50.2	1.1	0.0	9.8	2920.5	98.1
2	164.4	125.4	104.0	68.2	621.8	299.9	61.0	0.7	6.9	11.3	693.9	93.6
3	158.9	115.4	102.1	66.4	794.5	202.1	85.2	0.8	12.4	12.4	591.6	98.4
4	151.2	115.9	103.7	65.9	646.5	138.9	69.8	0.8	14.7	10.8	733.4	92.3
5	137.3	132.1	103.3	63.9	364.2	113.9	57.6	0.6	20.0	9.0	562.4	87.8
6	134.2	130.8	99.4	60.3	265.6	106.1	46.3	0.4	31.4	7.4	316.7	84.6
7	137.5	122.6	99.6	60.2	223.2	98.2	39.4	0.4	221.0	5.4	216.0	84.1
8	156.9	121.5	100.3	58.6	190.7	88.3	34.3	0.3	132.6	4.9	172.6	84.1
9	151.9	118.7	98.7	55.4	170.0	79.6	69.5	8.9	79.0	4.8	157.8	84.1
10	145.6	122.2	97.5	49.4	154.0	66.9	74.2	19.2	61.4	5.1	105.2	84.1
11	143.0	126.6	96.4	49.4	139.9	64.0	60.2	32.7	50.3	6.8	82.6	84.1
12	142.4	129.7	95.3	46.7	614.0	61.3	43.6	20.8	42.7	7.1	124.8	84.1
13	139.3	134.6	93.9	39.6	471.3	58.0	24.8	9.9	58.6	7.0	567.6	84.1
14	131.0	135.0	90.5	33.6	273.1	57.8	16.3	6.4	133.1	6.1	272.9	84.1
15	125.3	132.3	90.0	59.0	343.8	66.3	169.0	3.9	73.0	4.6	149.2	84.4
16	124.6	125.7	89.9	133.0	945.4	104.3	148.4	1.9	45.1	5.2	119.9	86.4
17	129.9	119.3	88.7	74.0	696.5	564.3	85.1	1.7	33.5	4.9	99.6	88.1
18	160.1	116.7	85.8	61.7	416.2	748.1	62.3	2.9	24.8	5.2	114.9	90.6
19	155.2	116.1	81.8	52.5	275.0	474.8	40.4	0.7	17.8	5.6	155.3	90.2
20	144.5	114.5	78.5	204.7	248.4	305.5	26.8	0.3	15.0	6.5	154.2	101.8
21	138.2	115.1	97.5	174.2	215.3	225.5	19.6	0.1	23.2	26.2	135.9	104.4
22	121.1	115.3	107.9	199.0	192.5	163.5	17.6	0.3	15.5	230.4	123.6	96.3
23	138.7	114.3	88.5	78.5	179.7	135.9	27.9	0.6	11.3	112.7	116.0	91.6
24	139.4	108.5	89.3	62.1	165.9	110.2	13.1	0.5	12.5	56.1	111.3	88.3
25	135.3	108.2	92.4	57.4	153.9	94.8	8.1	3.8	15.3	40.0	112.3	88.6
26	131.1	107.7	90.6	56.2	143.3	83.6	5.1	1.1	13.8	33.1	110.7	93.6
27	129.3	108.2	84.9	765.7	137.1	77.2	3.3	0.5	11.8	34.0	111.3	94.7
28	122.3	107.4	79.7	281.2	134.9	69.2	2.1	0.1	10.1	33.4	110.0	90.0
29	121.1	106.1	75.0	197.3	165.8	62.4	1.7	0.1	8.5	32.3	107.5	92.7
30	122.6	107.4	71.8	866.2	205.4	56.0	1.0	0.0	8.5	1053.7	104.2	112.2
31	131.7	107.4	68.9	164.5	164.5	1.4	0.0	0.0	3426.4	0.0	57.6	0.0
MEAN	140.29	120.00	91.67	133.89	340.85	167.94	44.06	3.93	40.13	168.33	313.46	89.65
INCHES	0.034	0.027	0.022	0.031	0.082	0.039	0.011	0.001	0.009	0.041	0.273	0.022
STA AV	0.046	0.042	0.047	0.069	0.133	0.136	0.045	0.036	0.084	0.079	0.084	0.051

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000007776. To convert discharge in inches to AC-FT, multiply by 255,093. STA AV based on 12 yr (1961-72) record period.

CHICKASHA, OKLAHOMA WATERSHED 611 NEAR ALEX

LOCATION: Big Dry Creek Watershed above State Road 19 bridge in Grady County, Okla.; tributary to Washita River; Red River Basin. Lat. 35 deg. 57 min. N.; Long. 97 deg. 51 min. W.

AREA: 4845.00 acres 7.57 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA				WATERSHED 611 NEAR ALEX								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1972 P	0.17	0.60	0.25	4.15	3.05	0.79	1.10	1.18	2.10	10.15	2.29	0.83	26.66					
Q	0.109	0.092	0.087	0.132	0.119	0.033	0.015	0.009	0.014	1.103	0.960	0.214	2.887					
STA AV P	0.92	1.22	1.42	2.44	3.80	2.57	1.77	2.60	4.29	2.61	1.97	1.11	26.72					
Q	0.075	0.087	0.096	0.137	0.244	0.176	0.057	0.036	0.223	0.180	0.159	0.092	1.563					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	10-30	0.326	10-30	0.290	10-30	0.458	10-30	0.626	10-30	0.673	10-30	0.881	10-30	1.158	10-30	1.605		
MAXIMUMS FOR PERIOD OF RECORD																		
	5-9 1964	0.501	5-9 1964	0.423	5-9 1964	0.557	5-9 1964	0.649	10-30 1972	0.673	10-30 1972	0.881	10-30 1972	1.158	10-30 1972	1.605		

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 3%; alfalfa - 2%; pasture and range - 95%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, pp. 69.8-5 (topography), 69.7-9 (geologic) and 1965, p. 69.7-21 (composite). Precipitation data obtained from Thiessen weighted average of 7 gages. Precipitation records began Oct. 1961; runoff records began Dec. 1961. For long-time precipitation records, see National Weather Service at Chickasha, Okla.

1972	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA					WATERSHED 611 NEAR ALEX				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0			
2	0.0	0.04	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	1.10	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.04
6	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.04	0.0			0.0
7	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0			0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0			0.0
10	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
11	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.18
12	0.0	0.0	0.0	0.0	0.129	0.01	0.25	0.05	0.0	0.0	0.93	0.03			0.03
13	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.34	0.0	0.0	0.0	0.0			0.0
14	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0			0.0
15	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01			0.01
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0			0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.04	0.71	0.0			0.0
19	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
20	0.0	0.0	0.0	1.15	0.0	0.0	0.0	0.0	0.0	0.28	0.02	0.03			0.03
21	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.10	0.16	2.71	0.19	0.0			0.0
22	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.17	0.0	0.05	0.0	0.0			0.0
23	0.0	0.0	0.25	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0			0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.19	0.0			0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0			0.0
26	0.08	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0			0.0
27	0.09	0.0	0.0	0.31	0.0	0.18	0.0	0.01	0.0	0.0	0.0	0.0			0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.0	0.0			0.0
29	0.0	0.0	0.0	0.60	1.46	0.0	0.0	0.0	0.07	0.0	0.0	0.54			0.54
30	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	4.50	0.0	0.0			0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.50	0.0	0.0			0.0
TOTAL	0.17	0.60	0.25	4.15	3.05	0.79	1.10	1.18	2.10	10.15	2.29	0.83			
STA AV	0.92	1.22	1.42	2.44	3.80	2.57	1.77	2.60	4.29	2.61	1.97	1.11			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values Thiessen weighted average of 7 rain gages on the watershed. STA AV based on 12 yr (1961-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)				CHICKASAW, OKLAHOMA				WATERSHED 611 NEAR ALEX			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.97	0.70	0.74	0.54	1.09	0.53	0.12	0.05	0.05	0.08	25.51	1.90
2	0.96	0.69	0.65	0.57	0.85	0.43	0.16	0.04	0.05	0.07	19.78	1.81
3	0.88	0.60	0.63	0.53	0.75	0.35	0.17	0.04	0.07	0.07	17.88	1.77
4	0.73	0.63	0.58	0.49	0.65	0.30	0.17	0.05	0.82	0.05	16.15	1.63
5	0.71	0.65	0.54	0.49	0.63	0.27	0.15	0.05	0.17	0.05	14.00	1.66
6	0.75	0.68	0.58	0.52	0.60	0.27	0.12	0.05	0.08	0.04	10.73	1.53
7	0.76	0.60	0.62	0.48	0.63	0.27	0.12	0.05	0.07	0.03	8.86	1.59
8	0.76	0.59	0.55	0.44	0.58	0.26	0.12	0.05	0.05	0.04	6.95	1.67
9	0.76	0.63	0.57	0.47	0.54	0.23	0.12	0.07	0.06	0.05	5.69	1.58
10	0.75	0.65	0.58	0.48	0.53	0.20	0.12	0.07	0.05	0.05	4.69	1.44
11	0.71	0.69	0.58	0.48	0.53	0.20	0.12	0.07	0.05	0.05	3.93	1.49
12	0.69	0.71	0.58	0.47	3.82	0.23	0.14	0.07	0.04	0.07	8.86	1.56
13	0.64	0.75	0.58	0.43	1.06	0.24	0.10	0.08	0.04	0.08	8.56	1.49
14	0.59	0.75	0.58	0.44	0.84	0.32	0.08	0.08	0.03	0.10	4.63	1.40
15	0.59	0.65	0.58	0.73	0.71	0.27	0.08	0.07	0.04	0.08	3.34	1.31
16	0.65	0.64	0.58	0.52	0.63	0.23	0.08	0.08	0.04	0.08	2.59	1.30
17	0.75	0.63	0.57	0.44	0.54	0.20	0.08	0.07	0.04	0.05	2.30	1.30
18	0.76	0.59	0.54	0.44	0.52	0.20	0.10	0.07	0.03	0.05	3.74	1.30
19	0.75	0.59	0.53	0.53	0.49	0.17	0.08	0.05	0.03	0.05	3.33	1.29
20	0.71	0.63	0.53	0.04	0.51	0.15	0.07	0.04	0.03	0.07	2.60	1.23
21	0.75	0.63	0.53	0.79	0.71	0.15	0.07	0.05	0.05	1.27	2.40	1.21
22	0.71	0.60	0.54	0.59	0.63	0.13	0.08	0.08	0.05	1.58	2.27	1.14
23	0.69	0.64	0.59	0.49	0.49	0.16	0.07	0.10	0.06	0.14	2.18	1.12
24	0.64	0.69	0.67	0.44	0.39	0.17	0.07	0.10	0.05	0.10	2.24	1.06
25	0.60	0.64	0.60	0.44	0.35	0.15	0.07	0.07	0.05	0.10	2.16	1.05
26	0.63	0.60	0.57	0.71	0.33	0.12	0.05	0.04	0.05	0.12	2.14	1.05
27	0.63	0.63	0.54	2.30	0.31	0.12	0.05	0.04	0.07	0.12	2.03	1.05
28	0.60	0.65	0.52	0.64	0.30	0.12	0.05	0.05	0.08	0.10	1.93	1.03
29	0.64	0.70	0.49	0.61	2.63	0.12	0.06	0.05	0.49	0.10	1.51	2.13
30	0.69		0.52	6.24	0.93	0.11	0.05	0.04	0.11	135.27	1.91	1.94
31	0.70		0.53		0.66		0.05	0.04		84.37		0.59
MEAN	0.7102	0.6085	0.5743	0.6926	0.7814	0.2229	0.0967	0.0597	0.0972	7.2416	6.5105	1.4071
INCHES	0.109	0.092	0.087	0.132	0.119	0.033	0.015	0.009	0.014	1.103	0.960	0.214
STA AV	0.075	0.087	0.096	0.137	0.244	0.176	0.057	0.036	0.223	0.180	0.159	0.092

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.004913. To convert discharge in inches to AC/FT, multiply by 403.75. STA AV based on 12 yr (1961-1972) record period.

LOCATION: Little Dry Creek Watershed above State Road 19 bridge in Grady County, Okla.; tributary to Big Dry Creek, Washita River; Red River Basin. GAGING STATION--WW1/4 sec. 33, T. 6 N., R. 6 W., lat. 35 deg. 57 min. N.; long. 97 deg. 51 min. W.; 5 miles Northwest of Alex, Okla.; on state road 19 bridge over Little Dry Creek.

AREA: 563.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)											
CHICKASHA, OKLAHOMA						WATERSHED 612 NEAR ALEX					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual
1972 P	0.14	0.57	0.25	4.32	3.02	0.55	0.90	1.87	1.07	9.95	25.77
Q	0.002	0.0	0.0	0.070	0.013	0.0	0.0	0.000	0.0	0.510	1.094
STA AV P	0.89	1.18	1.37	2.69	3.71	2.56	1.93	2.72	4.22	2.59	26.83
Q	0.079	0.058	0.055	0.155	0.113	0.185	0.075	0.051	0.180	0.123	1.210

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS											
Maximum Discharge				Maximum Volume for Selected Time Interval							
Date	Rate	1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	4 Days Date Vol.	6 Days Date Vol.	8 Days Date Vol.	
1972	10-30	0.571	10-30 0.416	10-30 0.591	10-30 0.635	10-30 0.639	10-30 0.837	10-30 0.905	10-24 0.905		
MAXIMUMS FOR PERIOD OF RECORD											
1972	10-30	0.571	10-30 0.416	10-30 0.591	6-23 0.733	6-23 0.756	10-30 0.837	10-30 0.905	10-24 0.905		
	1972	1972	1972	1963	1963	1972	1972	1972	1972		

NOTES: Watershed conditions: From a revised 1971 survey: alfalfa - 3%; pasture and range - 97%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 65.8-5 (Topography) and p. 69.7-9 (Geologic); 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 2 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Nov. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15
2	0.0	0.02	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0
4	0.01	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.50	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
6	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.02
7	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0
10	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16
12	0.0	0.0	0.0	0.0	1.32	0.0	0.28	0.07	0.0	0.0	0.57
13	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.33	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.92	0.0	0.0	0.0	0.0	0.0	0.0	0.01
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.04	0.71
19	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.25	0.02
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.27	2.83	0.20
22	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.12	0.0	0.06	0.0
23	0.0	0.25	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.55	0.0	0.0	0.17
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
26	0.07	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.07	0.0
27	0.06	0.0	0.0	0.37	0.0	0.05	0.0	0.01	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0
29	0.0	0.0	0.0	0.86	1.52	0.0	0.0	0.01	0.0	0.0	0.60
30	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	4.24	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.46	0.0
TOTAL	0.14	0.57	0.25	4.32	3.02	0.55	0.90	1.87	1.07	9.95	2.26
STA AV	0.89	1.18	1.37	2.69	3.71	2.56	1.93	2.72	4.22	2.59	1.89

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 2 rain gages on the watershed. STA AV based on 12 yr (1961-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA				WATERSHED 612 NEAR ALEX			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.067	0.036	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.037	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	
5	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	
6	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	
7	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	
12	0.0	0.0	0.0	0.0	0.173	0.0	0.0	0.0	0.0	0.0	1.088	0.020	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.020	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	
15	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.024	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.046	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.047	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.032	
20	0.0	0.0	0.0	0.121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.149	0.0	0.022	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.053	0.0	0.027	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.002	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.022	
29	0.0	0.0	0.0	0.140	0.141	0.0	0.0	0.0	0.0	0.0	0.001	0.498	
30	0.0	0.0	0.0	1.296	0.0	0.0	0.0	0.0	0.0	15.120	0.012	0.044	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.214	0.0	0.011	
MEAN	0.0016	0.0	0.0	0.0548	0.0101	0.0	0.0	0.0001	0.0	0.6947	0.0390	0.0372	
INCHES	0.002	0.0	0.0	0.070	0.013	0.0	0.0	0.000	0.0	0.910	0.049	0.049	
STA AV	0.079	0.058	0.055	0.155	0.113	0.185	0.075	0.051	0.180	0.123	0.029	0.108	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.04228. To convert discharge in inches to AC-FT, multiply by 46.92. STA AV based on 12 yr (1961-72) record period.

CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above County road South of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION—NW1/4 sec. 38, T. 7 N., R. 10 W., lat. 35 deg. 03 min. N.; long. 98 deg. 15 min. W.; 2 miles South of Anadarko, Okla., on upstream side of section line road bridge.

AREA: 16634.00 acres 26.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA				WATERSHED 111 NEAR ANADARKO			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual						
1972	P	0.09	0.38	0.51	4.74	3.40	0.85	1.37	1.83	1.51	6.61	1.83	0.66	23.78						
	Q	0.051	0.053	0.039	0.192	0.093	0.009	0.000	0.0	0.0	0.007	0.011	0.017	0.473						
STA AV	P	0.60	0.98	1.26	2.67	3.75	2.78	1.82	2.66	3.86	2.20	1.83	0.90	25.29						
	Q	0.070	0.075	0.084	0.140	0.158	0.059	0.029	0.015	0.043	0.026	0.058	0.058	0.814						
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																				
Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		2 Days		8 Days						
Date Date		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.					
1972		4-27	0.021	4-27	0.020	4-27	0.039	4-27	0.075	4-27	0.057	4-26	0.114	4-26	0.133	4-26	0.185			
MAXIMUMS FOR PERIOD OF RECORD																				
5-10		0.046	5-10	0.044	5-10	0.080	5-10	0.135	5-10	0.149	5-9	0.234	5-9	0.295	5-9	0.320				
1964			1964		1964		1964		1964		1964		1964		1964					

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 16%; row crop - 3%; alfalfa - 2%; pasture and range - 73% and miscellaneous - 6%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21 and 1962, USDA Misc. Pub. 1070, p. 69.7-9 (Geologic) and p. 69.10-4 (Topographic). Precipitation data obtained from a Thiessen weighted average of 6 gauges on the watershed. Precipitation records began Oct. 1961; runoff records began June 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.02	0.0	0.0	0.0	0.0	0.18	0.0	0.14	0.0	0.09	0.0		
2	0.0	0.02	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.03	0.69	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.04	0.0		
7	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.05	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.22	0.0	0.0	0.14	0.0	0.03	0.01	0.0	0.0	0.0	0.13		
12	0.0	0.0	0.0	0.0	1.20	0.0	0.0	0.0	0.0	0.0	0.44	0.02		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.0	0.0	0.01		
15	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.02		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.73	0.0	0.0	0.01	0.72	0.0		
19	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.06	0.70	0.02	0.05		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.03	2.46	0.20	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.02	0.0	0.0		
23	0.0	0.0	0.51	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.26	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0		
26	0.03	0.0	0.0	2.20	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0		
27	0.05	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.29	0.53	0.0	0.0	0.0		
29	0.0	0.0	0.88	0.69	1.69	0.06	0.0	0.01	0.0	0.0	0.42	0.0		
30	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	1.44	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.88	0.0	0.0	0.0		
TOTAL	0.09	0.38	0.51	4.74	3.40	0.85	1.37	1.83	1.51	6.61	1.83	0.66		
STA AV	0.60	0.98	1.26	2.67	3.75	2.78	1.82	2.66	3.86	2.20	1.83	0.90		

NOTES: For daily air temperatures in the vicinity, see table for Watershed #700, 169.007 of this publication. Precipitation values are a Thiessen weighted average of 6 rain gauges on the watershed. STA AV based on 12 yr (1961-72) record period.

1972		MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA					WATERSHED 111 MEAN ANNUAL			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	1.300	1.300	1.172	0.690	6.166	1.085	0.0	0.0	0.0	0.0	1.034	0.280			
2	1.290	1.394	0.960	0.681	3.926	0.711	0.0	0.0	0.0	0.0	0.175	0.280			
3	1.202	1.196	0.989	0.629	3.012	0.471	0.002	0.0	0.0	0.0	0.069	0.276			
4	1.016	1.221	0.979	0.629	2.304	0.332	0.019	0.0	0.0	0.0	0.054	0.254			
5	0.921	1.320	0.861	0.690	1.771	0.281	0.027	0.0	0.0	0.0	0.067	0.250			
6	0.932	1.470	0.900	0.751	1.631	0.250	0.020	0.0	0.0	0.0	0.066	0.250			
7	1.084	1.251	0.910	0.760	1.610	0.216	0.010	0.0	0.0	0.0	0.044	0.250			
8	1.204	1.159	0.910	0.760	1.520	0.167	0.002	0.0	0.0	0.0	0.044	0.250			
9	1.230	1.169	0.910	0.751	1.311	0.160	0.007	0.0	0.0	0.0	0.070	0.250			
10	1.271	1.281	0.900	0.699	1.161	0.164	0.001	0.0	0.0	0.0	0.096	0.254			
11	1.161	1.330	0.850	0.690	1.097	0.186	0.0	0.0	0.0	0.0	0.097	0.281			
12	1.047	1.579	0.900	0.674	6.540	0.186	0.0	0.0	0.0	0.0	0.266	0.315			
13	0.717	2.009	0.910	0.570	6.044	0.214	0.0	0.0	0.0	0.0	0.828	0.320			
14	0.532	1.935	0.910	0.504	5.239	0.465	0.0	0.0	0.0	0.0	0.216	0.320			
15	0.550	1.499	0.900	3.542	4.675	0.375	0.0	0.0	0.0	0.0	0.152	0.315			
16	0.822	1.319	0.831	1.087	3.689	0.275	0.0	0.0	0.0	0.0	0.184	0.290			
17	1.170	1.290	0.760	0.654	1.520	0.172	0.0	0.0	0.0	0.0	0.224	0.326			
18	1.831	1.214	0.699	0.524	0.921	0.137	0.0	0.0	0.0	0.0	0.439	0.425			
19	1.666	1.106	0.699	0.532	0.709	0.101	0.0	0.0	0.0	0.0	0.517	0.586			
20	1.599	1.090	0.760	0.676	0.609	0.074	0.0	0.0	0.0	0.0	0.345	0.567			
21	1.452	1.090	0.812	0.726	0.474	0.069	0.0	0.0	0.0	0.0	0.285	0.554			
22	1.327	1.090	0.760	0.579	0.416	0.062	0.0	0.0	0.0	0.0	0.280	0.510			
23	1.352	1.097	0.765	0.492	0.410	0.072	0.0	0.0	0.0	0.0	0.290	0.460			
24	1.290	1.135	1.145	0.344	0.404	0.095	0.0	0.0	0.0	0.0	0.356	0.416			
25	1.169	1.105	1.140	0.330	0.356	0.085	0.0	0.0	0.0	0.0	0.387	0.410			
26	1.150	1.142	0.997	0.624	0.286	0.044	0.0	0.0	0.0	0.0	0.292	0.404			
27	1.142	1.150	0.842	79.928	0.254	0.021	0.0	0.0	0.0	0.0	0.254	0.372			
28	1.097	1.150	0.760	12.794	0.250	0.011	0.0	0.0	0.0	0.0	0.250	0.416			
29	1.090	1.159	0.699	7.116	3.561	0.009	0.0	0.0	0.0	0.0	0.254	0.555			
30	1.097		0.690	14.589	1.935	0.001	0.0	0.0	0.0	0.0	0.276	0.884			
31	1.161		0.690		1.460		0.0	0.0		4.934		0.335			
MEAN	1.1574	1.2845	0.8713	4.4672	2.1052	0.2172	0.0029	0.0	0.0	0.1591	0.2638	0.3761			
INCRBS	0.051	0.053	0.039	0.192	0.093	0.009	0.000	0.0	0.0	0.007	0.011	0.017			
STA AV	0.070	0.075	0.084	0.140	0.158	0.059	0.029	0.015	0.043	0.026	0.058	0.058			

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001431. To convert discharge in inches to AC-FT, multiply by 1.386. STA AV based on 11 yr (1962-72) record period.

LOCATION: Delaware Creek Watershed above County road bridge East of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION—Sta 4 sec. 25, T. 7 N., R. 9 W., lat 35 deg. 03 min. N., long. 98 deg. 10 min. W., 3 miles East and 1 mile South of Anadarko, Okla., at section line road bridge.

AREA: 25660.00 acres 40.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASAW, OKLAHOMA				WATERSEED 131 NEAR ANADARKO					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1972 P	0.07	0.45	0.58	4.62	3.45	1.03	0.77	1.46	1.22	7.53	2.06	0.66	23.93		
Q	0.056	0.052	0.039	0.123	0.075	0.008	0.0	0.0	0.0	0.018	0.031	0.030	0.431		
STA AV P	0.72	1.10	1.33	2.82	3.97	2.60	1.82	2.56	3.90	2.46	2.02	0.98	26.28		
Q	0.048	0.057	0.070	0.105	0.139	0.036	0.004	0.004	0.013	0.023	0.028	0.042	0.567		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1972	4-27	0.005	4-27	0.005	4-27	0.009	4-27	0.023	4-27	0.034	4-26	0.041	4-26	0.045	
MAXIMUMS FOR PERIOD OF RECORD															
5- 9	0.028	5- 9	0.028	5- 9	0.054	5-31	0.112	5- 6	0.147	5- 6	0.173	5- 4	0.234	5- 4	0.333
1968		1968		1968		1971		1969		1969		1969		1969	

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 15%; row crop - 5%; alfalfa - 2%; pasture and range - 67%; and miscellaneous - 11%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.11-4 (Topographic) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Aug. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)					CHICKASAW, OKLAHOMA				WATERSEED 131 NEAR ANADARKO			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.01	0.0	0.0	0.0	0.0	0.05	0.0	0.01	0.0	0.19	0.0
2	0.0	0.02	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.10	0.57	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
6	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.03	0.0
7	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.27	0.0	0.0	0.09	0.0	0.02	0.0	0.0	0.0	0.0	0.10
12	0.0	0.0	0.0	0.0	1.40	0.01	0.03	0.0	0.0	0.0	0.51	0.02
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.02
15	0.0	0.0	0.0	1.09	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.01
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.09	0.02	0.0	0.0
19	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.03	0.54	0.02	0.02
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.06	2.60	0.20	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.02	0.0	0.0
23	0.0	0.0	0.58	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.16	0.0	0.25	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
26	0.03	0.0	0.0	0.93	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0
27	0.04	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.20	0.46	0.0	0.0	0.0
29	0.0	0.0	0.0	1.00	1.74	0.0	0.0	0.0	0.0	0.0	0.0	0.50
30	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.05	0.0	0.0
TOTAL	0.07	0.45	0.58	4.62	3.45	1.03	0.77	1.46	1.22	7.53	2.06	0.69
STA AV	0.72	1.10	1.33	2.82	3.97	2.60	1.82	2.56	3.90	2.46	2.02	0.98

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV based on 12 yr (1961-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA				WATERSHED 131 NEAR ANADARKO			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	2.714	2.437	1.586	1.140	5.165	1.132	0.0	0.0	0.0	0.0	5.425	1.051	
2	2.601	2.374	1.412	1.121	2.851	0.769	0.0	0.0	0.0	0.0	1.314	0.999	
3	2.426	1.736	1.430	1.052	2.286	0.584	0.0	0.0	0.0	0.0	0.837	0.982	
4	1.961	1.694	1.360	0.954	1.521	0.456	0.0	0.0	0.0	0.0	0.690	0.937	
5	1.717	2.090	1.230	0.991	1.612	0.367	0.0	0.0	0.0	0.0	0.607	0.921	
6	1.994	2.196	1.230	1.042	1.671	0.275	0.0	0.0	0.0	0.0	0.624	0.861	
7	2.154	1.957	1.330	0.982	1.485	0.211	0.0	0.0	0.0	0.0	0.239	0.807	
8	2.332	1.842	1.220	0.876	1.430	0.159	0.0	0.0	0.0	0.0	0.185	0.800	
9	2.406	1.830	1.150	0.860	1.300	0.104	0.0	0.0	0.0	0.0	0.114	0.800	
10	2.535	1.794	1.200	0.860	1.210	0.072	0.0	0.0	0.0	0.0	0.114	0.800	
11	1.750	1.576	1.230	0.860	1.160	0.061	0.0	0.0	0.0	0.0	0.129	0.792	
12	1.944	1.615	1.340	0.839	17.330	0.060	0.0	0.0	0.0	0.0	0.239	0.747	
13	1.807	2.189	1.320	0.711	5.252	0.057	0.0	0.0	0.0	0.0	1.778	0.740	
14	1.467	2.910	1.410	0.675	2.765	2.643	0.0	0.0	0.0	0.0	0.814	0.740	
15	1.260	2.442	1.310	9.911	1.970	0.821	0.0	0.0	0.0	0.0	0.696	0.740	
16	1.407	2.250	1.280	2.526	1.470	0.525	0.0	0.0	0.0	0.0	0.682	0.740	
17	1.854	2.102	1.220	1.222	1.145	0.282	0.0	0.0	0.0	0.0	0.737	0.809	
18	2.356	1.769	1.191	0.894	0.939	0.114	0.0	0.0	0.0	0.0	1.682	1.221	
19	2.169	1.655	1.087	0.892	0.802	0.042	0.0	0.0	0.0	0.0	2.466	1.280	
20	2.044	1.730	1.121	3.453	0.690	0.005	0.0	0.0	0.0	0.0	1.352	1.210	
21	2.044	1.792	1.121	3.365	0.594	0.0	0.0	0.0	0.0	0.0	1.300	1.131	
22	2.126	1.667	1.087	1.585	0.580	0.0	0.0	0.0	0.0	0.0	1.340	1.065	
23	2.126	1.782	1.397	1.024	0.569	0.002	0.0	0.0	0.0	0.0	1.250	1.051	
24	1.994	1.905	2.550	0.824	0.486	0.016	0.0	0.0	0.0	0.0	1.382	0.999	
25	1.692	1.905	2.084	0.800	0.372	0.010	0.0	0.0	0.0	0.0	1.555	0.990	
26	1.682	1.742	1.647	0.867	0.275	0.001	0.0	0.0	0.0	0.0	1.322	0.999	
27	1.475	1.642	1.392	43.853	0.221	0.0	0.0	0.0	0.0	0.0	1.201	1.051	
28	1.380	1.619	1.290	4.895	0.236	0.0	0.0	0.0	0.0	0.0	1.079	1.089	
29	1.370	1.562	1.210	3.202	16.702	0.0	0.0	0.0	0.0	0.0	1.060	1.346	
30	1.466		1.150	40.088	4.577	0.0	0.0	0.0	0.0	1.517	1.060	3.574	
31	2.086		1.190		1.611		0.0	0.0		17.402		1.020	
MEAN	1.9465	1.9231	1.3477	4.4135	2.6026	0.2524	0.0	0.0	0.0	0.6103	1.1160	1.0419	
INCHES	0.056	0.052	0.039	0.123	0.075	0.008	0.0	0.0	0.0	0.018	0.031	0.030	
STA AT	0.048	0.057	0.070	0.105	0.139	0.036	0.004	0.004	0.013	0.023	0.028	0.042	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0009276. To convert discharge in inches to AC-FT, multiply by 2,138. STA AT based on 11 yr (1962-72) record period.

CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA

LOCATION: line Creek Watershed above U.S. Highway 81 bridge at Chickasha, Grady and Caddo Counties, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NR1/4 sec. 29, T. 7 N., R. 7 W., lat. 35 deg. 03 min. N., long. 97 deg. 58 min. W., Northwest edge of Chickasha, Okla., at U.S. Highway 81 bridge.

AREA: 33300.00 acres 52.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)															CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																	
1972	P	0.08	0.49	0.46	4.70	3.54	1.21	0.72	1.56	0.70	8.18	2.32	0.57	24.53																	
	Q	0.007	0.001	0.000	0.048	0.090	0.018	0.000	0.000	0.000	0.154	0.140	0.001	0.459																	
STA AV	P	0.63	1.06	1.27	2.75	3.59	2.64	1.74	2.60	3.75	2.27	1.94	0.96	25.20																	
	Q	0.003	0.004	0.005	0.055	0.078	0.038	0.011	0.038	0.027	0.074	0.037	0.006	0.376																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
Maximum Discharge														Maximum Volume for Selected Time Interval																	
Date				1 Hour				2 Hours				6 Hours				12 Hours				1 Day				2 Days				8 Days			
Date				Date				Date				Date				Date				Date				Date				Date			
1972	10-31	0.014	10-31	0.014	10-31	0.028	10-31	0.076	10-31	0.117	10-31	0.160	10-30	0.197	10-30	0.236															
MAXIMUMS FOR PERIOD OF RECORD																															
	8-28	0.060	8-28	0.053	8-28	0.096	8-28	0.204	10-3	0.301	10-3	0.463	10-2	0.552	10-2	0.575															
	1965		1965		1965		1965		1971		1971		1971		1971																

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 30%; row crop - 2%; alfalfa - 5%; pasture and range - 48% and miscellaneous - 11%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69, 12-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69, 7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 13 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Sept. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)						CHICKASHA, OKLAHOMA				WATERSHED 411 AT CHICKASHA					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.01	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.18	0.0			
2	0.0	0.02	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.43	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02			
6	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.02	0.0			
7	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.01	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0			
10	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.28	0.0	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.0	0.10			
12	0.0	0.0	0.02	0.0	1.67	0.06	0.12	0.0	0.0	0.0	0.85	0.02			
13	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.07	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.01			
15	0.0	0.0	0.0	1.19	0.0	0.53	0.0	0.0	0.01	0.0	0.0	0.02			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.05	0.03	0.76	0.0			
19	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.01	0.83	0.0	0.0	0.0	0.0	0.0	0.36	0.02	0.02			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.11	2.86	0.21	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.16	0.0	0.05	0.0	0.0			
23	0.0	0.0	0.83	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.19	0.0	0.0	0.22	0.0			
25	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0			
26	0.04	0.0	0.0	0.86	0.0	0.0	0.0	0.0	0.01	0.08	0.0	0.0			
27	0.03	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.08	0.0	0.0	0.0			
29	0.0	0.0	0.51	1.67	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0			
30	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.02	0.0	2.74	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.06	0.0	0.0			
TOTAL	0.08	0.99	0.86	4.70	3.54	1.21	0.72	1.56	0.70	8.18	2.32	0.57			
STA AV	0.63	1.06	1.27	2.75	3.59	2.64	1.74	2.60	3.75	2.27	1.94	0.96			

NOTES: For daily air temperatures in the vicinity, see table for Watershed #700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 13 rain gages on the watershed. STA AV based on 12 yr. (1961-72) record period.

1972												
MEAN DAILY DISCHARGE (cfs)						CHICKASHA, OKLAHOMA						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		0.46	0.09	0.0	0.0	14.99	1.17	0.0	0.0	0.0	85.35	0.17
2		0.48	0.08	0.0	0.0	10.47	1.10	0.0	0.0	0.0	18.42	0.09
3		0.48	0.08	0.0	0.0	8.99	0.54	0.0	0.0	0.07	7.55	0.09
4		0.48	0.07	0.0	0.0	7.56	0.87	0.10	0.0	0.48	0.0	5.27
5		0.47	0.06	0.0	0.0	6.34	0.83	0.00	0.0	0.0	4.72	0.06
6		0.43	0.06	0.0	0.0	4.77	0.82	0.0	0.0	0.0	4.20	0.04
7		0.40	0.05	0.0	0.0	3.26	0.78	0.0	0.0	0.0	3.98	0.04
8		0.36	0.05	0.0	0.0	2.12	0.67	0.0	0.14	0.0	3.72	0.04
9		0.32	0.05	0.0	0.0	1.33	0.58	0.0	0.11	0.0	3.46	0.04
10		0.32	0.05	0.0	0.0	0.85	0.54	0.0	0.0	0.0	3.21	0.04
11		0.30	0.02	0.0	0.0	0.55	0.52	0.0	0.0	0.0	3.00	0.05
12		0.30	0.34	0.0	0.0	18.53	0.58	0.0	0.0	0.0	4.96	0.11
13		0.30	0.14	0.0	0.0	14.21	0.55	0.0	0.10	0.0	4.86	0.06
14		0.28	0.05	0.0	0.0	3.95	0.88	0.0	0.0	0.0	4.54	0.04
15		0.27	0.05	0.0	1.82	2.08	5.27	0.0	0.0	0.05	4.15	0.04
16		0.30	0.04	0.0	0.04	2.06	3.97	0.0	0.0	0.0	3.72	0.04
17		0.34	0.04	0.0	0.04	1.92	2.43	0.0	0.0	0.0	3.35	0.05
18		0.48	0.00	0.0	0.00	1.83	1.11	0.0	0.0	0.0	5.22	0.08
19		0.47	0.0	0.0	0.08	1.74	0.52	0.0	0.0	0.00	3.12	0.06
20		0.38	0.0	0.05	1.22	1.57	0.26	0.0	0.0	0.07	2.90	0.04
21		0.31	0.0	0.02	0.29	1.53	0.15	0.0	0.0	0.0	10.18	2.88
22		0.26	0.0	0.0	0.01	1.48	0.09	0.0	0.0	0.88	2.40	0.04
23		0.23	0.0	0.28	0.0	1.45	0.06	0.0	0.05	0.0	0.00	2.18
24		0.16	0.0	0.06	0.0	1.31	0.06	0.0	0.23	0.0	0.0	2.08
25		0.16	0.0	0.01	0.0	1.22	0.05	0.0	0.05	0.0	0.0	1.98
26		0.14	0.0	0.0	0.76	1.13	0.05	0.0	0.0	0.0	0.0	1.75
27		0.13	0.0	0.0	12.91	1.11	0.04	0.0	0.0	0.0	0.0	1.10
28		0.12	0.0	0.0	11.27	1.00	0.03	0.0	0.0	0.0	0.0	0.66
29		0.11	0.0	0.0	10.80	3.63	0.02	0.0	0.0	0.00	0.41	0.16
30		0.10	0.0	0.0	27.38	1.24	0.00	0.0	0.0	0.0	13.32	0.27
31		0.10	0.0	0.0		1.23	0.0	0.0	0.0	150.32	0.02	0.02

MEAN	0.3054	0.0458	0.0136	2.2204	4.0466	0.8323	0.0033	0.0215	0.0176	6.9307	6.5141	0.0575
INCHES	0.007	0.001	0.000	0.048	0.090	0.018	0.000	0.000	0.000	0.154	0.140	0.001
STA 4V	0.003	0.004	0.005	0.055	0.070	0.038	0.011	0.036	0.027	0.074	0.037	0.006

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0007148. To convert discharge in inches to AC-FI, multiply by 2.775. STA 4V based on 11 yr (1962-72) record period.

CHICKASAW, OKLAHOMA WATERSHED 511 NEAR TABLER

LOCATION: West Bitter Creek Watershed above U.S. Highway 62 bridge, East of Chickasha in Grady County, Okla.; tributary to Washita River; Red Silver Basin. GAGING STATION--241/4 sec. 29, T. 7 N., R. 8 W., lat. 35 deg. 03 min. N., long. 97 deg. 51 min. W., 4 miles East of Chickasha, Okla., at U.S. highway 62 bridge.

AREA: 38020.00 acres 59.40 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)												CHICKASAW, OKLAHOMA WATERSHED 511 NEAR TABLER											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972 P	0.12	0.51	0.86	3.67	3.13	1.35	1.32	1.89	0.54	8.19	2.49	0.53	24.60										
Q	0.050	0.047	0.046	0.157	0.198	0.042	0.014	0.0	0.0	0.518	0.215	0.029	1.317										
STA AV P	0.67	1.12	1.57	2.89	3.30	3.00	1.93	3.18	3.66	2.39	1.93	1.04	26.68										
Q	0.040	0.046	0.077	0.283	0.222	0.200	0.022	0.139	0.175	0.156	0.051	0.054	1.506										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge												Maximum Volume for Selected Time Interval											
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1972	10-31	0.035	10-31	0.034	10-31	0.068	10-31	0.191	10-31	0.306	10-31	0.365	10-30	0.523	10-30	0.552							
MAXIMUMS FOR PERIOD OF RECORD																							
	4-12	0.086	4-12	0.086	4-12	0.169	10- 2	0.462	10- 2	0.729	10- 2	0.796	10- 2	0.832	4- 9	0.896							
	1967		1967		1967		1971		1971		1971		1971		1967								

NOTES: Watershed conditions: From a 1967 survey: sowed crop - 22%; row crop - 39; alfalfa - 5%; pasture and range - 61% and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.13-11 (topography) and p. 69.7-21 (composite). Precipitation records began Oct. 1961; runoff records began Oct. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972				DAILY PRECIPITATION (inches)					CHICKASAW, OKLAHOMA				WATERSHED 511 NEAR TABLER												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.03	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.30	0.0												
2	0.0	0.04	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
3	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.25	0.02	0.24	0.0	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01												
6	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.03	0.0	0.0	0.02	0.0												
7	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.13	0.0	0.0	0.0	0.0												
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0												
10	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
11	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.12												
12	0.0	0.0	0.0	0.0	0.0	1.93	0.08	0.02	0.08	0.0	0.0	0.98	0.02												
13	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.23	0.0	0.0	0.0	0.0												
14	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.01												
15	0.0	0.0	0.0	0.0	0.96	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.02												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0												
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.07	0.69	0.0												
19	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
20	0.0	0.0	0.55	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.04	0.09												
21	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.19	0.09	3.40	0.16	0.0												
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.08	0.0	0.0												
23	0.0	0.31	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.60	0.0	0.0	0.22	0.0												
25	0.0	0.0	0.0	0.0	0.01	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0												
26	0.05	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0												
27	0.04	0.0	0.0	0.0	0.80	0.01	0.08	0.0	0.0	0.0	0.0	0.01	0.0												
28	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
29	0.0	0.0	0.0	0.10	0.73	0.01	0.0	0.0	0.0	0.0	0.0	0.26	0.0												
30	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.03	0.0	0.0	2.12	0.0	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.23	0.0	0.0												
TOTAL														0.67	0.51	0.86	3.67	3.13	1.35	1.32	1.89	0.54	8.19	2.49	0.53
STA AV														0.12	1.12	1.57	2.89	3.30	3.00	1.93	3.18	3.66	2.39	1.93	1.04

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69-007) of this publication. Precipitation values are a Thiessen weighted average of 15 rain gages on the watershed. STA AV based on 12 yr. (1961-72) record period.

1972	NEAR DAILY DISCHARGE (cfs)				CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TALLER							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.24	2.82	1.97	0.71	3.79	1.17	0.04	0.0	0.0	0.0	98.63	1.57
2	3.22	2.88	1.65	0.77	2.76	1.12	0.03	0.0	0.0	0.0	16.67	1.56
3	3.03	2.62	1.29	0.67	2.34	0.55	14.31	0.0	0.0	0.0	6.06	1.47
4	2.50	2.66	1.30	0.69	2.20	0.87	5.27	0.0	0.0	0.0	3.05	1.33
5	2.34	2.71	1.33	0.74	2.14	0.81	1.59	0.0	0.0	0.0	2.03	1.31
6	2.45	2.84	1.45	0.69	2.35	0.76	0.57	0.0	0.0	0.0	1.57	1.31
7	2.68	2.44	1.52	0.61	4.98	0.74	0.31	0.0	0.0	0.0	1.18	1.31
8	2.95	2.59	2.02	0.63	2.52	0.64	0.23	0.0	0.0	0.0	1.01	1.31
9	3.19	2.37	1.12	0.62	2.14	0.54	0.19	0.0	0.0	0.0	0.92	1.31
10	3.04	2.43	1.06	0.51	2.04	0.45	0.15	0.0	0.0	0.0	0.76	1.30
11	2.60	2.55	1.15	0.53	1.75	0.38	0.12	0.0	0.0	0.0	0.69	1.24
12	2.44	2.68	1.30	0.49	200.35	0.35	0.11	0.0	0.0	0.0	2.03	1.23
13	2.39	2.84	1.71	0.44	30.54	0.41	0.09	0.0	0.0	0.0	142.53	1.23
14	2.08	3.09	1.36	0.38	15.70	0.44	0.04	0.0	0.0	0.0	13.44	1.23
15	1.83	3.28	1.22	18.31	9.49	10.34	0.02	0.0	0.0	0.0	4.95	1.23
16	2.00	2.87	1.53	4.44	5.31	40.51	0.01	0.0	0.0	0.0	2.73	1.26
17	2.44	2.68	1.61	1.31	3.61	2.69	0.00	0.0	0.0	0.0	1.99	1.47
18	2.94	2.52	1.42	0.79	2.74	0.58	0.0	0.0	0.0	0.0	6.49	1.68
19	3.28	2.37	1.40	0.69	2.36	0.63	0.0	0.0	0.0	0.0	12.61	1.96
20	2.97	2.99	1.51	6.27	2.27	0.38	0.0	0.0	0.0	0.0	4.52	2.16
21	2.70	2.43	25.03	9.84	1.97	0.19	0.0	0.0	0.0	19.02	2.96	2.16
22	2.57	2.27	3.64	1.90	1.70	0.10	0.0	0.0	0.0	48.85	2.51	1.96
23	2.55	2.07	2.19	1.06	1.65	0.07	0.0	0.0	0.0	2.41	2.04	1.69
24	2.49	2.39	2.92	0.82	1.51	0.18	0.0	0.0	0.0	0.48	2.01	1.57
25	2.11	2.52	2.87	0.71	1.03	0.43	0.0	0.0	0.0	0.17	2.23	1.49
26	1.91	2.40	2.27	1.16	0.70	0.37	0.0	0.0	0.0	0.10	1.99	1.48
27	2.02	2.14	2.01	170.08	0.50	0.22	0.0	0.0	0.0	0.08	1.77	1.48
28	1.96	2.19	1.43	12.32	0.48	0.11	0.0	0.0	0.0	0.08	1.66	1.50
29	2.37	2.25	1.02	5.93	1.28	0.08	0.0	0.0	0.0	0.08	1.58	1.68
30	2.55		0.78	7.22	2.52	0.05	0.0	0.0	0.0	172.74	1.57	1.50
31	2.68		0.74		1.49		0.0	0.0		584.00		0.91
MEAN	2.565	2.582	2.382	8.377	10.201	2.231	0.744	0.0	0.0	26.710	11.473	1.493
INCHES	0.050	0.047	0.046	0.157	0.198	0.042	0.014	0.0	0.0	0.518	0.215	0.029
STA AV	0.040	0.046	0.077	0.283	0.222	0.200	0.022	0.139	0.175	0.156	0.091	0.054

NOTES: To convert mean daily discharge in CFS to IBS/DAY, multiply by 0.0006260. To convert discharge in inches to AC-FT, multiply by 3,168. STA AV based on 11 yr (1962-72) record period.

CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above county road East-Northeast of Anadarko, in Caddo County, Okla.; tributary to Washita River: Red River Basin. GAGING STATION--W81/4 sec. 18, T. 7 N., R. 9 W., lat. 35 deg. 05 min. N., long. 98 deg. 11 min. W., 2-1/2 miles East of Anadarko, Okla., on upstream side of section line road bridge.

AREA: 25020.00 acres 39.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA				WATERSHED 110 NEAR ANADARKO					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972	P	0.09	0.38	0.49	4.60	3.37	0.83	1.35	1.61	1.38	6.63	1.86	0.69	23.28									
	Q	0.0	0.0	0.0	0.002	0.001	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.004									
STA AV	P	0.60	0.99	1.25	2.72	3.67	2.78	1.78	2.65	3.80	2.18	1.81	0.90	25.14									
	Q	0.0	0.002	0.004	0.022	0.055	0.004	0.0	0.001	0.0	0.000	0.003	0.0	0.090									
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge												Maximum Volume for Selected Time Interval											
Date		Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days								
Date		Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.					
1972	4-27	0.000	4-26	0.000	4-26	0.001	4-26	0.001	4-26	0.002	4-26	0.002	4-25	0.002	4-22	0.002							
MAXIMUMS FOR PERIOD OF RECORD																							
5-11		0.004	5-11		0.004	5-11		0.007	5-11		0.021	5-11		0.038	5-6		0.070	5-6		0.127	5-4		0.278
1964			1964			1964			1964			1964			1969			1969			1969		

NOTES: Watershed conditions: From a revised 1971 survey: sowed crop - 30%; row crop - 5%; alfalfa - 11%; pasture and range - 29%; and miscellaneous - 25%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.10-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972					DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA				WATERSHED 110 NEAR ANADARKO			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.01	0.02	0.0	0.0	0.0	0.0	0.18	0.0	0.17	0.0	0.09	0.0					
2	0.0	0.02	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0					
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
4	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.04	0.60	0.0	0.0	0.0					
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02					
6	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.04	0.0					
7	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.04	0.0	0.0	0.0					
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
10	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
11	0.0	0.22	0.0	0.0	0.14	0.0	0.04	0.0	0.0	0.0	0.0	0.0				0.18	
12	0.0	0.0	0.0	0.0	1.21	0.0	0.01	0.0	0.0	0.0	0.47	0.02					
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0					
14	0.0	0.0	0.0	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.02					
15	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01				0.01	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0					
18	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.01	0.72	0.0					
19	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
20	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.04	0.71	0.03	0.05					
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.04	2.47	0.20	0.0					
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.02	0.0	0.0					
23	0.0	0.0	0.49	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.26	0.0					
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
26	0.03	0.0	0.0	1.90	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0					
27	0.05	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
28	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.27	0.48	0.0	0.0	0.0					
29	0.0	0.0	0.54	1.71	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.39					
30	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	1.51	0.0	0.0					
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.81	0.0	0.0					
TOTAL	0.09	0.38	0.49	4.60	3.37	0.83	1.35	1.61	1.38	6.63	1.86	0.69					
STA AV	0.60	0.99	1.25	2.72	3.67	2.78	1.78	2.65	3.80	2.18	1.81	0.90					

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV based on 12 yr. (1961-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA			WATERSHED 110 NEAR ABADABO			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	1.530	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.199	0.579	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.621	0.0	0.0	0.0	0.0	0.0	0.157	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.267	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0817	0.0187	0.0	0.0	0.0	0.0459	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.002	0.001	0.0	0.0	0.0	0.001	0.0	0.0
STA AV	0.0	0.002	0.004	0.022	0.055	0.004	0.0	0.001	0.0	0.000	0.003	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .0009513. To convert discharge in inches to AC-FT, multiply by 2.085. STA AV based on 10 yr (1963-72) record period.

LOCATION: Little Washita River Watershed above U.S. highway 81 bridge South of Chickasha in Grady and Caddo Counties, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SR1/4 sec. 32, T. 6 N., R. 7 W., lat. 34 deg. 57 min. N., long. 97 deg. 57 min. W., 5-1/2 miles South of Chickasha, Okla., at U.S. highway 81 bridge.

AREA: 132990.00 acres 207.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CRICKKASHA, OKLAHOMA				WATERSHED 522 NEAR MINNEKAH			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	0.08	0.50	0.41	5.45	3.39	0.97	0.79	1.21	1.25	9.16	2.23	0.62	26.06
Q	0.073	0.062	0.063	0.229	0.142	0.029	0.010	0.0	0.002	0.286	0.151	0.060	1.106
STA AV P	0.75	1.16	1.42	2.78	3.93	2.56	1.78	2.50	4.01	2.68	1.96	0.99	26.52
Q	0.068	0.074	0.092	0.147	0.232	0.121	0.028	0.044	0.066	0.103	0.093	0.062	1.130
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval Date	6 Hours Date	12 Hours Date	2 Days Date	8 Days Date						
1972 10-30	0.023	10-30	0.022	10-30	0.043	10-30	0.101	10-30	0.137	10-30	0.184	10-30	0.295
MAXIMUMS FOR PERIOD OF RECORD													
5-10 1964	0.056	5-10 1964	0.055	5-10 1964	0.108	5-9 1964	0.253	5-9 1964	0.316	5-9 1964	0.365	5-9 1969	0.476
5-3 1969													0.536

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 15%; row crop - 1%; alfalfa - 3%; pasture and range - 65%; and miscellaneous - 16%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164; p. 69.15-4 (topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 36 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972		DAILY PRECIPITATION (inches)					CRICKKASHA, OKLAHOMA				WATERSHED 522 NEAR MINNEKAH			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.0	0.03	0.0	0.18	0.0	0.0	0.0
2	0.0	0.03	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.54	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
6	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.01	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.36	0.0	0.0	0.06	0.0	0.04	0.01	0.0	0.0	0.0	0.0	0.12	0.0
12	0.0	0.0	0.0	0.0	1.52	0.02	0.04	0.0	0.0	0.0	0.0	0.06	0.01	0.0
13	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
15	0.0	0.0	0.0	0.94	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.05	0.0	0.71	0.0	0.0	0.0
19	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.03	0.40	0.01	0.03	0.0	0.0
21	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.08	0.14	3.34	0.17	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.03	0.0	0.0	0.0	0.0
23	0.0	0.0	0.40	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.20	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
26	0.04	0.0	0.0	1.35	0.0	0.0	0.0	0.01	0.01	0.06	0.0	0.0	0.0	0.0
27	0.04	0.0	0.0	0.69	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.03	0.01	0.0	0.18	0.37	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	1.03	1.46	0.01	0.0	0.0	0.0	0.07	0.0	0.0	0.42	0.0	0.0
30	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	3.13	0.0	0.0	0.0	0.0
31	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	2.20	0.0	0.0	0.0	0.0	0.0
TOTAL	0.08	0.50	0.41	5.45	3.39	0.97	0.79	1.21	1.25	9.16	2.23	0.62	0.99	0.92
STA AV	0.75	1.16	1.42	2.78	3.93	2.56	1.78	2.50	4.01	2.68	1.96	0.99	0.92	0.92

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 36 rain gages on the watershed. STA AV based on 12 yr. (1961-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA				WATERSHED 522 NEAR MINNEKAH			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	15.40	14.89	11.90	9.20	68.58	10.35	1.65	0.0	0.0	0.01	241.37	0.0	
2	15.32	12.34	11.82	9.20	38.73	9.64	0.56	0.0	0.0	0.52	44.84	11.26	
3	14.18	6.57	11.38	9.20	24.82	8.70	5.78	0.0	0.0	1.36	31.74	10.26	
4	9.54	5.59	11.30	9.20	20.63	7.71	10.48	0.0	2.19	0.38	25.44	9.44	
5	7.23	12.29	11.30	9.26	18.32	6.85	8.20	0.0	1.93	0.19	20.84	9.30	
6	11.30	12.56	11.30	9.64	18.86	6.36	7.05	0.0	2.49	0.02	16.65	9.30	
7	17.82	11.90	11.38	9.64	23.25	6.30	5.09	0.0	1.40	0.0	12.98	9.36	
8	16.34	11.38	11.75	9.20	19.15	6.09	3.60	0.0	0.69	4.00	10.70	9.74	
9	15.25	11.24	11.31	8.70	16.94	4.71	2.74	0.0	0.56	1.32	10.26	5.80	
10	13.69	10.30	10.93	8.26	16.54	3.81	1.65	0.0	0.30	0.13	9.50	5.80	
11	12.64	6.93	11.39	8.14	15.56	3.27	1.23	0.0	0.04	0.0	9.74	5.88	
12	12.43	8.46	11.12	7.65	156.07	3.86	1.54	0.0	0.0	0.0	27.29	10.32	
13	11.98	18.71	17.07	6.91	46.97	4.85	1.50	0.0	0.0	0.0	105.43	10.48	
14	11.31	19.21	14.20	6.57	26.35	5.34	0.94	0.0	0.0	0.0	25.75	11.00	
15	7.79	17.39	13.09	25.69	20.30	7.25	0.94	0.0	0.0	0.0	17.46	11.52	
16	8.71	16.01	12.41	30.96	16.27	6.80	0.21	0.0	0.0	0.0	12.61	11.68	
17	17.38	14.38	11.52	11.85	14.27	5.95	0.01	0.0	0.0	0.0	10.35	12.20	
18	16.34	10.71	11.75	7.64	13.09	5.41	0.0	0.0	0.0	0.0	17.09	12.65	
19	15.40	9.70	11.24	10.93	12.49	5.00	0.04	0.0	0.0	0.01	29.02	12.27	
20	15.02	9.46	10.21	27.66	11.90	4.75	0.27	0.0	0.01	0.11	17.75	12.27	
21	15.85	10.60	9.45	25.76	11.31	5.30	0.34	0.0	0.09	31.21	15.80	12.57	
22	15.93	10.86	10.01	13.98	10.73	5.35	0.05	0.0	0.09	60.13	16.80	11.52	
23	15.25	11.31	10.18	9.99	9.84	5.05	0.0	0.0	0.01	12.96	15.46	9.96	
24	13.82	11.82	12.74	9.14	9.70	4.95	0.0	0.0	0.0	5.44	15.11	9.30	
25	13.60	11.90	13.55	8.32	9.70	4.27	0.0	0.0	0.0	3.91	17.40	8.86	
26	13.75	11.90	10.57	9.88	9.64	2.21	0.0	0.0	0.0	4.15	16.45	8.80	
27	13.65	11.90	9.26	463.14	9.20	3.09	0.0	0.0	0.0	3.30	14.18	8.86	
28	7.74	11.90	8.82	57.63	8.76	2.24	0.0	0.0	0.10	2.85	12.88	9.38	
29	7.06	11.90	9.14	35.27	64.32	1.88	0.0	0.0	1.80	2.80	12.27	11.01	
30	11.88	9.20	409.82	36.15	2.02	0.0	0.0	0.0	0.21	669.66	9.10	30.12	
31	16.31		9.20		12.89		0.0	0.0		796.01		12.30	
MEAN	13.222	11.866	11.306	42.615	25.526	5.313	1.739	0.0	0.397	51.628	28.074	10.814	
INCHES	0.073	0.062	0.063	0.229	0.142	0.029	0.010	0.0	0.002	0.286	0.151	0.060	
STA AV	0.068	0.074	0.092	0.147	0.232	0.121	0.028	0.044	0.066	0.103	0.093	0.062	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0001790. To convert discharge in inches to AC-FT, multiply by 11,083. Yearly mean discharge, 10.7 CFS. STA AV based on 10 yr (1963-72) record period.

CHICKASHA, OKLAHOMA WATERSHED 512 AT TATLER

LOCATION: East Bitter Creek Watershed above U.S. Highway 62 bridge at Tatler, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 27, T. 7 N., R. 6 W., lat. 35 deg. 05 min. N., long 97 deg. 50 min. W., at Tatler, Okla., at U.S. Highway 62 bridge.

AREA: 22530.00 acres 35.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA				WATERSHED 512 AT TATLER			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972	P 0.16	0.59	1.00	4.29	3.16	0.87	1.46	1.62	0.77	8.50	2.35	0.70	25.87
	Q 0.161	0.135	0.131	0.266	0.297	0.047	0.024	0.000	0.002	0.545	0.216	0.056	1.920
STA AV	P 0.76	1.23	1.53	2.81	3.57	3.18	2.19	3.27	4.03	2.65	2.02	1.11	28.31
	Q 0.096	0.101	0.137	0.274	0.308	0.208	0.070	0.161	0.189	0.192	0.156	0.109	2.001

ANNUAL MAXIMUM DISCHARGE (cfs/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge				Maximum Volume for Selected Time Interval												
Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1972	10-31	0.036	10-31	0.036	10-31	0.071	10-31	0.191	10-31	0.288	10-31	0.363	10-30	0.567	10-30	0.604

MAXIMUMS FOR PERIOD OF RECORD																															
8-8		0.134		8-8		0.129		8-8		0.244		10-2		0.473		10-2		0.609		10-2		0.667		10-2		0.694		4-9		0.742	
1965				1965				1965				1971				1971				1971				1971				1967			

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 8%; alfalfa - 3%; pasture and range - 81% and miscellaneous - 8%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watershed in the United States, 1965, USDA Misc. Pub. 1216, p. 69.16-8 (Topography) and p. 69.7-21 (Composite). Precipitation records began Oct. 1961; runoff records began Aug. 1963. STA AV (P) values are a Thiessen weighted average of 10 gages for 1961-66 and 31 gages for 1967-72 on the watershed. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 512 AT TATLER							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec								
1	0.03	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0								
2	0.0	0.05	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0								
3	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0								
4	0.0	0.0	0.0	0.0	0.0	0.03	0.26	0.01	0.30	0.0	0.0	0.0								
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								0.03
6	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.01	0.0	0.0	0.06	0.0								
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0								
8	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.32	0.0	0.0	0.0	0.0								
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0								
10	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
11	0.0	0.39	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0								0.14
12	0.0	0.0	0.0	0.0	1.88	0.08	0.01	0.15	0.0	0.0	0.75	0.03								
13	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.29	0.0	0.0	0.0	0.0								
14	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0								
15	0.0	0.0	0.0	1.18	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.02								
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0								
18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.11	0.74	0.0								
19	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
20	0.0	0.0	0.69	1.24	0.0	0.0	0.0	0.0	0.0	0.19	0.03	0.15								
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.13	3.39	0.17	0.0								
22	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.08	0.0	0.12	0.0	0.0								
23	0.0	0.0	0.31	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0								
24	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.51	0.0	0.0	0.22	0.0								
25	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.02	0.0								
26	0.06	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0								
27	0.07	0.0	0.0	0.78	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0								
28	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
29	0.0	0.0	0.0	0.12	0.77	0.01	0.0	0.0	0.0	0.0	0.0	0.33								
30	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.01	0.0	2.62	0.0	0.0								
31	0.0				0.0			0.0		2.36										
TOTAL	0.16	0.59	1.00	4.29	3.16	0.87	1.46	1.62	0.77	8.90	2.35	0.70								
STA AV	0.76	1.23	1.53	2.81	3.57	3.14	2.19	3.27	4.03	2.65	2.02	1.11								

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. STA AV values are a Thiessen weighted average of 10 gages for 1961-66 and 31 gages for 1967-72 on the watershed. STA AV based on 12 yr for total period of record (1961-72).

1972		MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLABOMA					WATERSHED 512 AT TABLE			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	6.18	4.97	3.84	3.63	6.04	2.91	0.29	0.01	0.0	0.0	78.83	2.82			
2	6.14	4.89	3.56	3.61	5.23	2.45	1.85	0.00	0.0	0.0	10.34	2.83			
3	5.76	4.06	3.51	3.48	4.77	2.23	4.74	0.0	0.0	0.0	5.31	2.91			
4	4.97	4.21	3.47	3.22	4.58	2.15	6.14	0.0	0.0	0.0	3.97	2.94			
5	4.82	4.78	3.18	3.37	4.47	2.18	2.30	0.0	0.00	0.0	3.30	2.96			
6	5.28	4.75	3.08	3.49	4.76	1.57	1.22	0.0	0.01	0.0	2.93	2.58			
7	5.48	4.10	3.20	3.48	5.84	1.86	0.86	0.0	0.01	0.0	2.61	2.51			
8	5.52	4.51	2.95	3.30	5.14	1.71	0.78	0.0	0.05	0.0	2.34	2.51			
9	5.63	4.66	2.85	3.27	4.71	1.57	0.80	0.00	1.23	0.0	2.21	2.51			
10	5.50	4.26	2.92	3.28	4.31	1.47	0.68	0.01	0.13	0.0	2.06	2.51			
11	5.32	3.83	3.04	3.38	4.02	1.37	0.57	0.01	0.04	0.0	2.04	2.51			
12	5.07	4.60	3.16	3.45	123.22	1.47	0.55	0.00	0.01	0.0	3.83	2.51			
13	4.89	5.56	3.32	3.18	17.21	1.89	0.48	0.01	0.00	0.0	20.53	2.51			
14	4.03	5.74	3.21	3.02	10.04	2.04	0.35	0.02	0.0	0.0	3.68	2.51			
15	3.89	5.22	3.35	29.27	7.82	2.12	0.20	0.03	0.0	0.0	2.62	2.51			
16	4.03	4.91	3.37	6.51	6.57	2.08	0.12	0.01	0.0	0.0	2.51	2.51			
17	4.99	4.80	3.30	4.17	5.72	1.70	0.08	0.01	0.0	0.0	2.48	2.60			
18	5.68	4.31	3.35	3.51	5.17	1.26	0.07	0.00	0.0	0.0	7.58	3.24			
19	5.38	3.52	3.31	3.85	4.64	1.06	0.09	0.0	0.0	0.0	8.95	3.70			
20	5.18	3.79	3.82	29.91	4.43	0.74	0.08	0.0	0.0	0.0	4.13	3.78			
21	5.03	3.87	15.29	12.17	4.27	0.51	0.06	0.0	0.0	14.29	3.57	3.83			
22	4.89	3.91	5.08	6.10	4.02	1.27	0.04	0.0	0.0	26.63	3.48	3.54			
23	4.87	4.04	4.75	4.65	3.78	0.56	0.04	0.0	0.0	2.00	3.31	3.38			
24	4.80	4.26	5.42	3.94	3.60	1.52	0.04	0.0	0.0	0.72	3.45	3.27			
25	4.36	4.26	4.77	3.68	3.27	1.44	0.03	0.0	0.0	0.56	3.85	3.15			
26	4.19	4.05	4.19	4.14	2.96	0.99	0.02	0.0	0.0	0.53	3.34	3.05			
27	3.58	4.00	3.91	63.10	2.91	0.57	0.01	0.0	0.0	0.56	3.04	3.02			
28	3.46	3.91	3.78	9.80	2.89	0.45	0.01	0.0	0.0	0.56	2.83	2.96			
29	4.44	3.89	3.74	6.82	5.36	0.42	0.01	0.0	0.0	0.56	2.74	3.28			
30	4.69		3.65	12.63	5.47	0.36	0.02	0.0	0.0	152.51	2.81	4.15			
31	4.65		3.63		3.52		0.01	0.0		316.78		1.87			
MEAN	4.926	4.416	4.000	8.380	9.056	1.491	0.727	0.004	0.049	16.636	6.823	2.934			
INCHES	0.161	0.135	0.131	0.266	0.297	0.047	0.024	0.000	0.002	0.545	0.216	0.096			
STA AV	0.096	0.101	0.137	0.274	0.308	0.208	0.070	0.161	0.189	0.192	0.156	0.109			

NOTES: To convert mean daily discharge in CFS to IIS/DAY, multiply by 0.001056. To convert discharge in inches to AC-FT, multiply by 1.878. STA AV based on 10 yr (1963-72) record period.

LOCATION: Winter Creek Watershed above county farm to market road bridge north of Alex in Grady County, Okla., tributary to Washita River; Red River Basin. GAGING STATION—N1/4 sec. 18, T. 6 N., R. 5 W., lat. 35 deg. 00 min., long. 97 deg. 46 min., 5 miles north and 1 mile east of Alex, Okla., about 1,000 feet downstream from county section line farm to market road bridge over Winter Creek.

AREA: 21310.00 acres 33.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA		WATERSHED 621 NEAR TABLE	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1972 P	0.14	0.58	0.74	4.45	3.00	0.72	2.41	1.33	0.59	9.00	2.81	0.86	26.63			
Q	0.223	0.195	0.150	0.263	0.273	0.050	0.075	0.022	0.007	0.676	0.837	0.253	3.024			
STA AV P	0.98	1.23	1.39	2.77	3.87	2.87	2.26	2.86	4.29	2.68	2.03	1.18	28.40			
Q	0.142	0.153	0.160	0.232	0.422	0.198	0.118	0.112	0.303	0.252	0.248	0.180	2.521			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge				Maximum Volume for Selected Time Interval				Maximum Discharge				Maximum Volume for Selected Time Interval				
Date	Date	1 Hour	2 Hours	Date	Date	6 Hours	12 Hours	Date	Date	1 Day	2 Days	Date	Date	8 Days		
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1972	10-30	0.101	10-30	0.093	10-30	0.161	10-30	0.264	10-31	0.303	10-30	0.468	10-30	0.733	10-30	1.026
MAXIMUMS FOR PERIOD OF RECORD																
	5-10	0.207	5-10	0.179	5-10	0.265	5-22	0.410	5-22	0.649	5-22	0.791	5-22	0.957	5-22	1.310
1964	1964		1964		1964		1970		1970		1970		1970		1970	

NOTES: Watershed conditions: From a revised 1971 survey: sowed crop - 9%; row crop - 1%; alfalfa - 2%; pasture and range - 77% and miscellaneous - 11%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.17-8 (Topography) and p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 5 gauges on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA		WATERSHED 621 NEAR TABLE	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0				
2	0.0	0.04	0.0	0.0	0.0	0.0	1.33	0.0	0.0	0.0	0.0	0.0				
3	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.01	0.0	0.12	0.0	0.40	0.0	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03				
6	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.04	0.0	0.0	0.10	0.0				
7	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.06	0.0	0.0	0.0	0.0				
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0				
10	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
11	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.17				
12	0.0	0.0	0.0	0.0	1.45	0.01	0.02	0.0	0.0	0.0	1.26	0.03				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.01	0.0	0.0				
15	0.0	0.0	0.0	0.83	0.0	0.12	0.0	0.0	0.0	0.02	0.0	0.01				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0				
18	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.08	0.73	0.0				
19	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
20	0.0	0.0	0.49	1.72	0.0	0.0	0.0	0.0	0.0	0.19	0.03	0.15				
21	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.06	0.13	2.73	0.17	0.0				
22	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.07	0.0	0.14	0.0	0.0				
23	0.0	0.25	0.0	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.48	0.0	0.22	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.02	0.0	0.0				
26	0.07	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0				
27	0.06	0.0	0.0	0.47	0.01	0.20	0.0	0.0	0.0	0.0	0.0	0.0				
28	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
29	0.0	0.0	0.0	0.12	0.90	0.0	0.0	0.0	0.0	0.47	0.0	0.0				
30	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	3.21	0.0	0.0				
31	0.0				0.0					2.52						
TOTAL	0.14	0.58	0.74	4.45	3.00	0.72	2.41	1.33	0.59	9.00	2.81	0.86				
STA AV	0.98	1.23	1.39	2.77	3.87	2.87	2.26	2.86	4.29	2.68	2.03	1.18				

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 9 rain gages on the watershed. STA AV based on 12 yr (1961-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)				CRICKASRA, OKLAHOMA				WATERSHED 621 NEAR TABLER			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	8.12	6.45	5.52	3.07	13.76	3.00	0.51	0.28	0.21	0.20	121.44	9.28
2	7.91	5.94	5.14	3.03	9.40	2.66	19.22	0.14	0.27	0.18	71.02	8.79
3	7.48	4.97	4.77	3.38	7.41	2.51	19.92	0.17	0.39	0.19	55.14	8.41
4	5.19	5.43	4.69	2.76	6.33	2.46	4.09	0.24	0.77	0.23	42.46	7.94
5	5.52	6.39	4.50	2.66	5.51	2.25	2.74	0.18	0.74	0.21	30.14	7.77
6	7.07	6.34	4.18	2.76	10.30	2.09	2.01	0.21	0.45	0.22	22.39	7.16
7	7.22	5.13	4.08	2.73	7.60	1.88	1.54	0.30	0.31	0.27	18.63	7.06
8	6.70	5.01	3.78	2.38	6.58	1.76	1.21	0.46	0.24	0.30	16.99	7.06
9	6.99	5.53	3.60	2.13	5.85	1.75	1.15	0.95	0.16	0.33	15.67	7.06
10	7.06	5.63	3.60	2.13	5.34	1.76	1.10	0.78	0.10	0.33	14.36	7.06
11	7.06	4.73	3.76	2.33	4.75	1.85	1.28	0.56	0.08	0.31	12.93	7.06
12	6.99	5.28	3.94	2.34	43.32	1.85	1.64	0.36	0.05	0.30	44.29	7.06
13	6.38	7.62	4.11	2.25	21.20	1.81	1.34	2.04	0.03	0.30	43.79	7.06
14	4.95	7.10	4.13	2.26	14.37	2.04	0.93	3.62	0.02	0.30	21.83	7.06
15	4.72	6.36	4.11	9.72	10.80	1.97	0.68	2.53	0.07	0.31	17.82	7.06
16	5.01	6.05	3.94	6.93	8.52	1.74	0.56	1.78	0.05	0.39	16.38	7.06
17	6.73	5.82	3.83	5.22	6.88	1.44	0.53	0.73	0.03	0.32	14.47	7.13
18	6.83	5.56	4.06	4.36	5.86	1.15	0.88	0.32	0.00	0.33	21.21	7.52
19	6.00	5.25	3.92	4.94	5.17	0.87	1.05	0.14	0.0	0.34	16.84	7.63
20	6.77	5.71	3.63	31.94	4.75	0.77	0.58	0.08	0.03	0.65	14.72	7.87
21	6.57	6.88	8.28	17.70	4.47	0.71	0.47	0.04	0.19	8.76	14.66	8.09
22	6.54	7.09	5.51	12.38	3.93	0.69	0.47	0.12	0.26	8.76	13.90	7.87
23	6.54	7.29	5.25	8.39	3.28	0.85	0.49	0.28	0.26	2.36	12.74	7.56
24	6.51	7.29	5.60	6.20	2.82	1.02	0.40	1.04	0.18	1.59	13.02	7.09
25	6.32	6.97	4.78	5.15	2.62	0.50	0.38	1.34	0.13	1.44	12.41	6.68
26	6.35	6.15	4.18	4.79	2.38	0.69	0.38	0.25	0.18	1.44	11.37	5.68
27	6.43	5.82	3.96	20.55	2.25	0.62	0.38	0.19	0.23	1.51	10.34	5.19
28	4.68	5.61	3.90	11.84	2.37	0.61	0.38	0.18	0.21	1.44	9.48	5.14
29	4.93	5.58	3.58	9.41	7.23	0.60	0.38	0.19	0.17	1.43	9.36	9.48
30	6.48		3.27	40.14	5.32	0.53	0.34	0.25	0.17	256.80	9.36	9.95
31	6.39		3.11		3.83		0.31	0.18		313.62		3.27
MEAN	6.428	6.033	4.346	7.863	7.877	1.453	2.172	0.642	0.199	19.521	24.971	7.294
INCHES	0.223	0.195	0.150	0.263	0.273	0.050	0.075	0.022	0.007	0.676	0.837	0.253
STA AV	0.142	0.153	0.160	0.232	0.422	0.198	0.118	0.112	0.303	0.252	0.248	0.180

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001117. To convert discharge in inches to AC-FT, multiply by 1.776. STA AV based on 10 yr (1963-72) record period.

LOCATION: Sugar Creek Watershed above Gracemont in Caddo County, Okla.; tributary to Washita River; Red River Basin.
 GAGING STATION--SE 1/8 sec. 9, T. 8N., E. 10 W., lat. 35 deg. 10 min. 30 sec. N., long. 98 deg. 15 min. 30 sec. W.,
 one mile south of Gracemont, Okla., on downstream side of county road bridge.

AREA: 131780.00 acres 205.90 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASAW, OKLAHOMA				WATERSHED 121 AT GRACEMONT						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1972 P	0.08	0.26	0.18	2.13	3.03	1.27	1.24	1.90	0.50	4.92	1.67	0.88	18.06			
	0.038	0.036	0.007	0.014	0.026	0.002	0.000	0.000	0.001	0.003	0.016	0.009	0.151			
STA AV P	0.54	0.84	1.19	2.40	3.62	3.55	1.82	2.71	4.77	1.89	1.55	1.08	25.97			
	0.047	0.259	0.068	0.107	0.207	0.106	0.012	0.025	0.180	0.027	0.034	0.049	1.122			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1972	4-30	0.001	4-30	0.001	4-30	0.002	4-30	0.004	4-30	0.005	4-29	0.007	4-29	0.009	4-26	0.018
MAXIMUMS FOR PERIOD OF RECORD																
	9-21	0.064	9-21	0.062	9-21	0.122	9-21	0.318	9-21	0.497	9-21	0.653	9-21	0.815	9-21	1.238
	1965		1965		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: From a revised 1971 survey: sowed crop - 10%; row crop - 12%; alfalfa - 4%; pasture and range - 56% and miscellaneous - 18%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 69.18-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). The stream gaging station was maintained from Oct. 1955 to Oct. 1963 by the U.S. Geological Survey. Precipitation data obtained from a Thiessen weighted average of 32 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972	DAILY PRECIPITATION (inches)					CHICKASAW, OKLAHOMA					WATERSHED 121 AT GRACEMONT				
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.04	0.03	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.12	0.0	0.13	0.0		
2	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0		
4	0.03	0.0	0.0	0.0	0.0	0.20	0.0	0.19	0.08	0.18	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.01
6	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.09	0.0	0.0	0.01	0.0		0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.01	0.0	0.0	0.0		0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.05	0.0	0.0	0.0		0.0
10	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0		0.0
11	0.0	0.17	0.0	0.0	0.0	0.76	0.02	0.06	0.0	0.0	0.0	0.0	0.0		0.24
12	0.0	0.0	0.0	0.0	0.0	0.66	0.05	0.02	0.0	0.0	0.0	0.54	0.02		0.02
13	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.15	0.0	0.0	0.0	0.0		0.0
14	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.02
15	0.0	0.0	0.0	0.0	0.45	0.0	0.08	0.0	0.0	0.01	0.0	0.0	0.0		0.02
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.01	0.0	0.02	0.48	0.0		0.0
19	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
20	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.09	0.66	0.04	0.01		0.0
21	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.68	0.0	1.88	0.18	0.0		0.0
22	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.10	0.0	0.05	0.0	0.0		0.0
23	0.0	0.18	0.0	0.0	0.07	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
24	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.30	0.0	0.0	0.26	0.0		0.0
25	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
26	0.0	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0		0.0
27	0.01	0.0	0.0	0.0	0.01	0.27	0.0	0.0	0.01	0.0	0.0	0.03	0.0		0.0
28	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.24	0.04	0.0	0.0	0.0		0.0
29	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.55		0.0
30	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.07	0.0	0.0		0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.18	0.0	0.0		0.0
TOTAL	0.08	0.26	0.18	2.13	3.03	1.27	1.24	1.90	0.50	4.92	1.67	0.88			
STA AV	0.54	0.84	1.19	2.40	3.62	3.55	1.82	2.71	4.77	1.89	1.55	1.08			

NOTES: For daily air temperatures in the vicinity, see table for Watershed #700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 32 rain gages on the watershed. STA AV based on 12 yr. (1961-72) record period.

1972	BRAN DAILY DISCHARGE (cfs)				CHICKASAW, OKLAHOMA				WATERSHED 121 AT GRACERONT			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.350	7.337	4.437	0.825	12.262	0.925	0.0	0.0	2.555	0.075	2.964	3.762
2	7.050	5.287	4.662	0.750	7.675	0.262	0.0	0.0	0.769	0.012	3.800	3.737
3	6.712	5.275	3.612	0.507	5.037	0.187	0.062	0.0	0.125	0.012	0.875	2.525
4	4.887	8.287	3.037	1.662	4.575	0.125	0.387	0.0	0.250	0.100	0.425	0.937
5	4.100	8.750	2.775	0.575	3.825	0.187	0.137	0.0	0.112	0.162	0.225	0.700
6	5.550	8.400	2.412	0.175	3.700	0.200	0.012	0.0	0.012	0.037	0.187	0.700
7	11.000	7.925	2.000	0.325	3.637	0.187	0.0	0.0	0.0	0.100	0.112	0.700
8	9.625	7.250	1.062	0.162	3.162	0.112	0.0	0.153	0.0	0.175	0.100	0.700
9	7.837	7.800	0.512	0.237	2.325	0.087	0.0	0.150	0.0	0.112	0.100	0.700
10	7.050	7.425	0.662	0.062	0.575	0.012	0.0	0.0	0.0	0.087	0.100	0.700
11	6.737	7.050	0.687	0.150	0.087	0.012	0.012	0.0	0.0	0.025	0.112	0.700
12	6.625	7.225	0.612	0.025	21.898	0.087	0.075	0.0	0.0	0.100	0.487	0.700
13	5.962	8.525	0.612	0.0	17.925	0.075	0.012	0.0	0.0	0.175	2.462	0.700
14	4.525	8.325	0.662	0.0	13.462	4.152	0.0	0.0	0.0	0.100	3.975	0.700
15	3.875	7.600	0.550	1.051	8.700	2.425	0.0	0.0	0.0	0.037	5.487	0.700
16	4.487	7.925	0.662	0.837	5.412	0.350	0.0	0.0	0.0	0.175	5.237	0.700
17	6.037	7.962	0.587	0.200	2.162	0.237	0.0	0.0	0.0	0.200	5.125	0.700
18	8.550	7.650	0.412	0.012	0.450	0.037	0.251	0.0	0.0	0.212	6.212	1.137
19	8.137	7.012	0.312	0.050	0.125	0.0	0.025	0.0	0.0	0.275	6.287	3.562
20	8.000	6.437	0.312	0.337	0.062	0.0	0.150	0.0	0.0	0.162	5.650	2.737
21	8.000	6.137	0.375	0.300	0.350	0.0	0.025	0.024	0.0	3.443	5.762	2.112
22	7.925	6.137	0.287	0.187	0.387	0.0	0.0	0.478	0.0	1.850	5.725	1.837
23	7.387	6.400	0.612	0.025	0.325	0.0	0.0	0.0	0.0	0.150	5.350	2.250
24	6.750	6.587	2.642	0.0	0.375	0.0	0.0	0.0	0.0	0.087	5.725	1.900
25	6.400	6.175	1.000	0.0	0.312	0.0	0.0	0.0	0.0	0.025	5.425	1.450
26	6.025	5.950	0.637	0.451	0.300	0.0	0.0	0.0	0.0	0.087	3.037	1.325
27	5.125	5.025	0.487	12.611	0.425	0.0	0.0	0.0	0.0	0.087	1.800	1.387
28	3.887	4.662	0.350	13.887	1.325	0.0	0.0	0.0	0.0	0.012	1.462	1.525
29	3.850	4.287	0.500	6.656	10.897	0.0	0.0	0.012	0.0	0.025	1.725	2.562
30	6.025		0.637	36.636	6.412	0.0	0.0	0.087	0.012	2.129	2.787	4.200
31	12.737		0.500		3.175		0.0	0.075		4.822		1.712
BRAN	6.7165	6.9246	1.2857	2.6260	4.5756	0.3222	0.0371	0.0316	0.1275	0.4857	2.9575	1.6052
INCHES	0.038	0.036	0.007	0.014	0.026	0.002	0.000	0.000	0.001	0.003	0.016	0.009
STA AV	0.047	0.259	0.068	0.107	0.207	0.106	0.012	0.025	0.180	0.027	0.034	0.049

NOTES: To convert mean daily discharge in CFS to 18/DAY, multiply by 0.0001806. To convert discharge in inches to AC-FT, multiply by 10,982. STA AV based on 10 yr (1963-72) record period.

LOCATION: Beddingfield Watershed is the West branch of East Bitter Creek 1.4 miles above East Bitter Creek gaging station, in Grady County, tributary to East Bitter Creek; West of the Red River Basin. GAGING STATION--SR1/4 sec. 22, T. 7 N., R. 6 W., lat. 35 deg. 03 min. 53 sec. N., long. 97 deg. 49 min. 13 sec. W.

AREA: 12314.00 acres 19.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLE											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1972	P	0.17	0.59	1.14	4.08	3.27	1.02	1.46	1.81	0.75	9.03	2.33	0.72	26.37			
	Q	0.160	0.134	0.145	0.259	0.343	0.046	0.022	0.0	0.002	0.661	0.253	0.099	2.123			
STA AV	P	0.79	1.21	1.54	3.05	3.53	2.59	2.27	3.58	4.08	3.15	1.25	1.18	28.20			
	Q	0.101	0.102	0.149	0.363	0.318	0.237	0.077	0.178	0.221	0.230	0.095	0.110	2.181			
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
Maximum Discharge		Maximum Volume for Selected Time Interval															
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days									
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1972	10-31	0.043	10-31	0.043	10-31	0.083	10-31	0.229	10-31	0.379	10-31	0.529	10-30	0.711	10-30	0.752	
MAXIMUMS FOR PERIOD OF RECORD																	
8-8	0.169	8-8	0.164	8-8	0.307	8-7	0.562	6-14	0.611	10-2	0.659	4-12	0.754	4-9	0.875		
1965		1965		1965		1965		1969		1971		1967		1967			

NOTES: Watershed conditions: From a revised 1971 survey: sowed crop - 48; alfalfa - 15; pasture and range - 90% and miscellaneous - 5%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub 1216, p. 65-16-8 (Topography) and p. 69-7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 18 gages on the watershed. Precipitation and runoff records began Jan. 1965. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)				CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLE											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.04	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0			
2	0.0	0.05	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.04	0.0	0.37	0.01	0.26	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02			
6	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.01	0.0	0.0	0.06	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.36	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.36	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.14			
12	0.0	0.0	0.0	0.0	1.98	0.14	0.0	0.24	0.0	0.0	0.69	0.03			
13	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.32	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0			
15	0.0	0.0	0.0	1.26	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.02			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.12	0.72	0.0			
19	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.83	1.04	0.0	0.0	0.0	0.0	0.0	0.19	0.03	0.15			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.10	3.52	0.16	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.08	0.0	0.12	0.0	0.0			
23	0.0	0.0	0.31	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.05	0.0	0.63	0.0	0.0	0.22	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.02	0.0			
26	0.06	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0			
27	0.07	0.0	0.0	0.78	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.11	0.75	0.01	0.0	0.0	0.0	0.0	0.0	0.36			
30	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	2.50	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.48	0.0	0.0			
TOTAL	0.17	0.59	1.14	4.08	3.27	1.02	1.46	1.81	0.75	9.03	2.33	0.72			
STA AV	0.79	1.21	1.54	3.05	3.53	2.59	2.27	3.58	4.08	3.15	1.25	1.18			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69-007) of this publication. Precipitation values are a Thiessen weighted average of 18 rain gages on the watershed. STA AV based on 8 yr (1965-72) record period.

1972	NEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA WATERSHED 513 NEAN TABLE						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.53	2.78	2.16	2.09	3.54	1.92	0.0	0.0	0.0	0.0	66.63	1.67
2	3.44	2.78	2.10	2.08	2.99	1.70	0.05	0.0	0.0	0.0	6.34	1.68
3	3.35	2.34	2.09	1.97	2.68	1.58	2.45	0.0	0.0	0.0	2.66	1.69
4	2.80	2.31	2.08	1.74	2.56	1.39	4.72	0.0	0.0	0.0	1.95	1.75
5	2.52	2.61	2.01	1.83	2.59	1.15	1.27	0.0	0.0	0.0	1.57	1.71
6	2.74	2.66	2.01	1.97	2.92	0.59	0.68	0.0	0.0	0.0	1.43	1.44
7	2.97	2.25	2.06	1.91	3.47	0.91	0.45	0.0	0.0	0.0	1.17	1.39
8	3.19	2.27	1.94	1.77	2.91	0.83	0.40	0.0	0.75	0.0	1.09	1.39
9	3.36	2.43	1.93	1.71	2.49	0.82	0.39	0.0	0.31	0.0	1.05	1.39
10	3.07	2.39	2.00	1.83	2.35	0.81	0.33	0.0	0.00	0.0	0.91	1.39
11	2.70	2.06	2.10	1.98	2.19	0.77	0.24	0.0	0.0	0.0	0.96	1.39
12	2.64	2.03	2.22	1.97	82.13	0.78	0.23	0.0	0.0	0.0	1.60	1.39
13	2.53	2.38	2.10	1.78	10.55	1.04	0.17	0.0	0.0	0.0	7.10	1.39
14	2.24	3.02	2.01	1.69	6.27	1.07	0.12	0.0	0.0	0.0	1.56	1.39
15	1.88	2.79	2.00	19.15	4.84	1.05	0.06	0.0	0.0	0.0	1.23	1.39
16	1.93	2.65	2.00	3.50	3.97	1.09	0.04	0.0	0.0	0.0	1.20	1.39
17	2.61	2.53	1.99	2.34	3.46	0.84	0.01	0.0	0.0	0.0	1.20	1.46
18	3.06	2.28	1.93	2.05	3.18	0.66	0.00	0.0	0.0	0.0	5.15	1.89
19	2.70	2.18	1.90	2.22	2.89	0.55	0.0	0.0	0.0	0.0	5.79	2.13
20	2.56	2.18	2.17	9.48	2.76	0.17	0.0	0.0	0.0	0.0	2.42	2.10
21	2.57	2.23	10.46	8.10	2.70	0.29	0.0	0.0	0.0	9.34	2.10	2.07
22	2.74	2.15	2.73	3.45	2.41	0.85	0.0	0.0	0.0	20.56	1.93	1.93
23	2.85	2.34	2.55	2.68	2.34	0.50	0.0	0.0	0.0	0.93	1.84	1.84
24	2.83	2.43	2.92	2.29	2.15	0.76	0.0	0.0	0.0	0.20	1.82	1.82
25	2.69	2.35	2.51	2.13	1.86	0.74	0.0	0.0	0.0	0.16	1.77	1.76
26	2.68	2.19	2.27	2.50	1.76	0.45	0.0	0.0	0.0	0.15	1.75	1.68
27	2.29	2.17	2.17	33.88	1.70	0.12	0.0	0.0	0.0	0.15	1.69	1.63
28	2.03	2.17	2.10	5.41	1.81	0.03	0.0	0.0	0.0	0.16	1.67	1.76
29	2.00	2.17	2.05	3.98	3.56	0.00	0.0	0.0	0.0	0.15	1.61	1.98
30	2.03		2.09	4.46	3.53	0.0	0.0	0.0	0.0	68.99	1.61	2.40
31	2.30		2.09		2.27		0.0	0.0		240.94		1.07
NEAN	2.673	2.383	2.413	4.465	5.717	0.796	0.374	0.0	0.036	11.025	4.360	1.656
INCHES	0.160	0.134	0.145	0.259	0.343	0.046	0.022	0.0	0.002	0.661	0.253	0.099
STA AV	0.101	0.102	0.149	0.363	0.318	0.237	0.077	0.178	0.221	0.230	0.095	0.110

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001933. To convert discharge in inches to AC-FT, multiply by 1,026. STA AV based on 8 yr (1965-72) record period.

LOCATION: Salt Creek Watershed 1/2 mile East of U.S. highway 81 near Pocasset, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 28, T. 8 N., R. 7 W., lat. 35 deg. 08 min. 44 sec. N, long. 97 deg. 57 min. 30 sec. W.

AREA: 15206.00 acres 23.76 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASAW, OKLAHOMA				WATSEESSEE 311 NEAR POCASSET								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1972 P	0.07	0.30	0.65	2.23	2.70	1.10	1.02	1.89	0.55	6.60	2.11	0.72	19.94					
Q	0.016	0.014	0.007	0.017	0.033	0.001	0.000	0.0	0.0	0.170	0.059	0.002	0.319					
STA AV P	0.70	0.85	1.33	3.39	4.33	3.40	1.73	2.17	3.46	3.08	1.38	1.00	26.81					
Q	0.011	0.011	0.016	0.508	0.516	0.387	0.004	0.008	0.032	0.119	0.029	0.017	1.658					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	10-31	0.018	10-31	0.018	10-31	0.036	10-31	0.058	10-31	0.152	10-31	0.181	10-30	0.199	10-27	0.205		
MAXIMUMS FOR PERIOD OF RECORD																		
	4-12	0.320	4-12	0.314	4-12	0.600	4-12	1.201	4-12	1.310	4-12	1.338	4-12	1.424	4-9	1.720		
	1967		1967		1967		1967		1967		1967		1967		1967			

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 36%; row crop - 1%; alfalfa - 3%; pasture and range - 49% and miscellaneous - 11%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 69-27-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69-7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation and runoff records began Jan. 1967. For long-time precipitation records, see National Weather Service records at Chickasaw, Okla.

1972				DAILY PRECIPITATION (inches)				CHICKASAW, OKLAHOMA				WATSEESSEE 311 NEAR POCASSET			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.04	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.22	0.0	0.15	0.0			
2	0.0	0.03	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.06	0.0	0.18	0.0	0.22	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01			
6	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.02	0.0	0.0	0.02	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.03	0.03	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0			
10	0.0	0.08	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.18	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.31			
12	0.0	0.0	0.0	0.0	1.66	0.22	0.02	0.0	0.0	0.0	0.66	0.02			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.37	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.01	0.0	0.0	0.0	0.02			
15	0.0	0.0	0.0	0.77	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.01			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.03	0.0	0.03	0.75	0.0			
19	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.28	0.46	0.0	0.0	0.0	0.0	0.0	0.30	0.05	0.0			
21	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.44	0.08	2.75	0.17	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.08	0.0	0.0			
23	0.0	0.37	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.33	0.0	0.0	0.27	0.0			
25	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.02	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0			
27	0.01	0.0	0.0	0.25	0.03	0.10	0.0	0.0	0.0	0.0	0.01	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.08	0.0	0.77	0.02	0.0	0.0	0.0	0.0	0.35	0.0			
30	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.04	0.0	1.64	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.75	0.0	0.0			
TOTAL	0.70	0.30	0.65	2.23	2.70	1.10	1.02	1.89	0.55	6.60	2.11	0.72			
STA AV	0.07	0.05	1.33	3.39	4.33	3.40	1.73	2.17	3.46	3.08	1.38	1.00			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are Thiessen weighted average of 9 rain gages on the watershed. STA AV based on 6 yr (1967-72) record period.

1972	HEAD DAILY DISCHARGE (cfs)				CHICKASAW, OKLAHOMA WATERSHED 311 NEAR POCASSET							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.51	0.29	0.23	0.11	0.15	0.04	0.0	0.0	0.0	0.0	20.46	0.08
2	0.44	0.32	0.20	0.11	0.13	0.03	0.0	0.0	0.0	0.0	1.61	0.09
3	0.37	0.32	0.17	0.11	0.11	0.02	0.0	0.0	0.0	0.0	0.30	0.09
4	0.36	0.32	0.17	0.11	0.11	0.01	0.0	0.0	0.0	0.0	0.08	0.06
5	0.36	0.29	0.17	0.13	0.11	0.01	0.0	0.0	0.0	0.0	0.03	0.04
6	0.36	0.29	0.15	0.14	0.11	0.01	0.0	0.0	0.0	0.0	0.03	0.02
7	0.36	0.29	0.17	0.13	0.12	0.01	0.0	0.0	0.0	0.0	0.05	0.02
8	0.36	0.26	0.15	0.12	0.15	0.01	0.0	0.0	0.0	0.0	0.05	0.03
9	0.36	0.26	0.15	0.13	0.17	0.00	0.0	0.0	0.0	0.0	0.04	0.04
10	0.36	0.27	0.13	0.13	0.17	0.0	0.0	0.0	0.0	0.0	0.01	0.02
11	0.36	0.32	0.13	0.13	0.17	0.0	0.0	0.0	0.0	0.0	0.01	0.02
12	0.36	0.36	0.13	0.11	16.34	0.0	0.0	0.0	0.0	0.0	0.00	0.04
13	0.32	0.37	0.15	0.09	3.41	0.00	0.21	0.0	0.0	0.0	4.14	0.03
14	0.25	0.43	0.15	0.09	0.56	0.02	0.06	0.0	0.0	0.0	1.10	0.04
15	0.17	0.44	0.15	0.51	0.27	0.24	0.00	0.0	0.0	0.0	0.25	0.03
16	0.20	0.40	0.15	1.73	0.16	0.08	0.0	0.0	0.0	0.0	0.12	0.03
17	0.26	0.36	0.15	0.52	0.11	0.01	0.0	0.0	0.0	0.0	0.09	0.03
18	0.35	0.32	0.15	0.23	0.10	0.00	0.0	0.0	0.0	0.0	0.52	0.05
19	0.36	0.29	0.13	0.19	0.10	0.0	0.0	0.0	0.0	0.0	5.67	0.06
20	0.36	0.24	0.13	0.24	0.08	0.0	0.0	0.0	0.0	0.0	0.79	0.06
21	0.32	0.23	0.13	0.20	0.08	0.0	0.0	0.0	0.0	0.0	0.27	0.06
22	0.32	0.20	0.12	0.15	0.06	0.0	0.0	0.0	0.0	0.03	0.13	0.04
23	0.32	0.20	0.14	0.13	0.05	0.0	0.0	0.0	0.0	0.00	0.07	0.04
24	0.31	0.23	0.19	0.08	0.05	0.0	0.0	0.0	0.0	0.0	0.08	0.04
25	0.27	0.26	0.17	0.06	0.04	0.0	0.0	0.0	0.0	0.0	0.08	0.05
26	0.27	0.30	0.17	0.10	0.03	0.0	0.0	0.0	0.0	0.0	0.06	0.05
27	0.34	0.34	0.15	3.86	0.03	0.0	0.0	0.0	0.0	0.0	0.08	0.06
28	0.30	0.27	0.15	0.65	0.05	0.0	0.0	0.0	0.0	0.0	0.08	0.06
29	0.29	0.23	0.13	0.29	0.11	0.0	0.0	0.0	0.0	0.0	0.09	0.05
30	0.26		0.13	0.20	0.08	0.0	0.0	0.0	0.0	1.93	0.09	0.06
31	0.24		0.13		0.05		0.0	0.0		106.60		0.03
MEAN	0.3248	0.2990	0.1519	0.3595	0.6860	0.0165	0.0087	0.0	0.0	3.5019	1.2530	0.0455
INCHES	0.016	0.014	0.007	0.017	0.033	0.001	0.000	0.0	0.0	0.170	0.059	0.002
STA AV	0.011	0.011	0.016	0.508	0.516	0.387	0.004	0.008	0.032	0.119	0.029	0.017

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001565. To convert discharge in inches to AC-FT, multiply by 1,267. STA AV based on 6 yr (1967-72) record period.

LOCATION: Grady County, Oklahoma; SW 1/4 sec. 26, E. 7 W., T. 7 N., about 2 miles Southeast of Chickasaw, Oklahoma; Washita River Basin.

AREA: 17.83 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASAW, OKLAHOMA WATERSHED C-1		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1972	P	0.08	0.49	0.42	5.48	3.43	0.87	0.61	0.97	0.61	9.44	2.35	0.37	25.12		
	Q	0.0	0.0	0.0	0.918	0.026	0.0	0.0	0.0	0.0	2.232	1.189	0.0	4.366		
STA AV	P	0.72	1.09	1.54	2.97	3.57	2.36	1.62	3.53	3.75	2.99	1.21	0.96	26.30		
	Q	0.0	0.002	0.005	0.148	0.268	0.214	0.043	0.378	0.330	0.554	0.262	0.066	2.269		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1972	10-30	0.083	10-30	0.083	10-30	0.164	10-30	0.455	10-31	0.812	10-30	1.504	10-30	2.662	10-26	2.925
MAXIMUMS FOR PERIOD OF RECORD																
	10-30	0.083	10-30	0.083	10-30	0.164	10-30	0.455	10-2	0.814	10-30	1.504	10-30	2.662	10-26	2.925
1972			1972		1972		1972		1971		1972		1972		1972	

NOTES: Watershed conditions: Continuous cotton - tillage during fallow period consisted of shredding stalks, disking, chiseling, spring-tooth harrowing and spike-tooth harrowing. Cotton was planted during mid-June. Tillage during the growing season consisted of rotary hoeing and cultivating. Principal drain with less than 0.05 ft. grade per 100 feet was maintained during the growing season by use of field cultivator. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.30-1 and 69.30-3. Monthly precipitation values obtained from one recording rain gage, No. 173, located near the 1.5 ft. H-flume. Precipitation and runoff records began January 1, 1965. STA AV based on 8 yr (1965-72) record period. For long-time precipitation records, see National Weather Service records at Chickasaw Okla.

1972 DAILY PRECIPITATION (inches)												CHICKASAW, OKLAHOMA WATERSHED C-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.02	0.02	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.22	0.0	
2	0.0	0.01	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.02	0.0	0.32	0.0	0.55	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.01	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	
10	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	
12	0.0	0.0	0.0	0.0	1.89	0.04	0.01	0.0	0.0	0.0	0.59	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.16	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.01	
15	0.0	0.0	0.0	1.35	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.65	0.0	
19	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.09	0.95	0.0	0.0	0.0	0.0	0.0	0.30	0.01	0.02	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.05	3.44	0.20	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.04	0.0	0.0	
23	0.0	0.0	0.33	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.18	0.0	0.0	0.22	0.0	
25	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.02	0.0	0.0	1.23	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	
27	0.04	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.61	1.35	0.0	0.0	0.0	0.0	0.0	0.0	0.16	
30	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	3.27	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.27	0.0	0.0	
TOTAL	0.08	0.49	0.42	5.48	3.43	0.87	0.61	0.97	0.61	9.44	2.35	0.37	
STA AV	0.72	1.09	1.54	2.97	3.57	2.36	1.62	3.53	3.75	2.99	1.21	0.96	

NOTES: Values obtained from one recording rain gage, No. 173. STA AV based on 8 yr (1965-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLABOMA WATERSHED C-1							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.586	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.044	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0	0.060	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.113	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.0	
20	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.009	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.082	0.008	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.002	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.297	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.003	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.362	0.0	0.0	0.0	0.0	0.0	0.524	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.037	0.0	0.0	
HEAN	0.0	0.0	0.0	0.0229	0.0006	0.0	0.0	0.0	0.0	0.0539	0.0297	0.0	
INCHES	0.0	0.0	0.0	0.918	0.026	0.0	0.0	0.0	0.0	2.232	1.189	0.0	
STA AV	0.0	0.002	0.005	0.148	0.268	0.214	0.043	0.378	0.330	0.554	0.262	0.066	

NOTES: To convert discharge in CFS to I&D/AT, multiply by 1.334922. STA AV based on 8 yr (1965-72) record period.

LOCATION: Grady County, Oklahoma; SE 1/4, sec. 4, E. 8 W., T. 7 N., about 6 miles West and 4 miles North of Chickasha Oklahoma; Washita River Basin.

AREA: 32.54 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASAW, OKLAHOMA WATERSHED C-2							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	0.06	0.43	0.39	3.67	2.67	1.20	0.67	1.26	0.45	6.81	2.14	0.41	20.16
Q	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.059	0.001	0.0	0.060
STA AV P	0.65	0.98	1.30	2.80	3.38	2.85	1.69	2.61	3.29	2.19	1.64	0.87	24.25
Q	0.0	0.0	0.0	0.022	0.067	0.055	0.0	0.004	0.004	0.011	0.000	0.016	0.179
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval							
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972 10-30	0.006	10-30	0.005	10-30	0.009	10-30	0.023	10-31	0.029	10-30	0.048	11-10	0.059
												11-4	0.059
MAXIMUMS FOR PERIOD OF RECORD													
4-12	0.099	4-12	0.075	5-5	0.115	5-5	0.225	5-4	0.294	5-6	0.375	5-5	0.550
1967		1967		1969		1969		1969		1969		1969	

NOTES: Watershed conditions: 100% cropland. Entire watershed seeded to wheat in the fall of 1971 and harvested in mid-June 1972. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.31-1 and 69.31-3. Monthly precipitation values obtained from one weighting type rain gage, No. 174. Precipitation and runoff records began May 1, 1962. STA AV based on 11 yr (1962-72) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972		DAILY PRECIPITATION (inches)					CHICKASAW, OKLAHOMA			WATERSHED C-2			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	
2	0.0	0.02	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.04	0.0	0.22	0.0	0.35	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
6	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	
10	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.22	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.06	
12	0.0	0.0	0.0	0.0	1.39	0.07	0.04	0.0	0.0	0.0	0.70	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.20	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
15	0.0	0.0	0.0	1.01	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.05	0.77	0.0	
19	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.40	0.03	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.10	2.22	0.19	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.05	0.0	0.0	
23	0.0	0.0	0.39	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.20	0.0	0.0	0.23	0.0	
25	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.02	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
27	0.02	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	
29	0.0	0.0	1.05	1.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	
30	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.20	0.0	1.64	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.40	0.0	0.0	
TOTAL		0.06	0.43	0.39	3.67	2.67	1.20	0.67	1.26	0.45	6.81	2.14	0.41
STA AV		0.65	0.98	1.30	2.80	3.38	2.85	1.69	2.61	3.29	2.19	1.64	0.87

NOTES: Values obtained from one weighting type rain gage, No. 174. STA AV based on 11 yr (1962-72) record period.

1972	NEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA					WATERSEED C-2		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T 0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.039	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.042	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0026	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.059	0.001	0.0	0.0
STA AV	0.0	0.0	0.0	0.022	0.067	0.055	0.0	0.004	0.004	0.011	0.000	0.016	0.0

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.731458. STA AV based on 11 yr (1962-72) record period.

LOCATION: Grady County, Oklahoma; NE 1/4 sec. 35, R. 7 N., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 44.26 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												CHICKASAW, OKLAHOMA WATERSHED C-3											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972 P	0.07	0.50	0.29	5.51	3.10	0.81	0.64	1.04	0.59	9.50	2.42	0.33	24.80										
Q	0.0	0.0	0.0	0.900	0.123	0.0	0.0	0.0	0.0	2.661	0.177	0.0	3.861										
STA AV P	0.66	1.13	1.55	3.04	3.49	2.04	1.85	2.69	3.71	3.00	1.18	0.91	25.25										
Q	0.008	0.010	0.037	0.426	0.521	0.382	0.244	0.445	0.463	0.626	0.096	0.026	3.283										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge				1 Hour				2 Hours				Maximum Volume for Selected Time Interval				6 Hours				1 Day			
Date	Date	Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	10-30	0.320	10-30	0.306	10-30	0.571	10-30	1.271	10-30	1.473	10-30	2.227	10-30	2.585	10-24	2.585							
MAXIMUMS FOR PERIOD OF RECORD																							
	5-31	0.556	5-31	0.451	5-31	0.707	10-30	1.271	10-2	1.639	10-30	2.227	10-30	2.585	10-24	2.585							
	1971		1971		1971		1972		1971		1972		1972		1972								

NOTES: Watershed conditions: 100% cropland, previously graded and smoothed for row irrigation. Entire watershed disked and moldboard plowed 8-10 inches deep in mid-Dec. 1972. Spring prep tillage consisted of disking, spring-tooth harrowing, incorporating fertilizer and herbicide. Entire watershed planted to cotton during early June. Tillage during growing season consisted of rotary hoeing and cultivating with sweep type cultivator as needed. Area irrigated four times, commencing July 7 and ending Sept. 3 with total applied about 10 inches. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.32-1 and 69.32-3. Monthly precipitation data obtained from two recording weighing type rain gages, No. 186 and Cotton Research Station gage. Precipitation and runoff records began September 1, 1965. STA AV based on 8 yr (1965-72) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972		DAILY PRECIPITATION (inches)					CHICKASAW, OKLAHOMA				WATERSHED C-3			
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.23	0.0	
2	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.26	0.0	0.46	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
6	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.02	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	
12	0.0	0.0	0.0	0.0	0.0	1.85	0.03	0.01	0.0	0.0	0.0	0.98	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.15	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.02	
15	0.0	0.0	0.0	0.0	1.36	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.01	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.08	0.67	0.0	
19	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.02	1.05	0.0	0.0	0.0	0.0	0.0	0.26	0.04	0.02	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.11	3.45	0.21	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.05	0.0	0.0	
23	0.0	0.0	0.27	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.13	0.0	0.0	0.22	0.0	
25	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.03	0.0	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	
27	0.03	0.0	0.0	0.0	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.55	1.11	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	
30	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	3.27	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.33	0.0	0.0	
TOTAL		0.66	0.50	0.29	5.51	3.10	0.81	0.64	1.04	0.59	9.50	2.42	0.33	
STA AV		0.07	1.13	1.55	3.04	3.49	2.04	1.85	2.69	3.71	3.00	1.18	0.91	

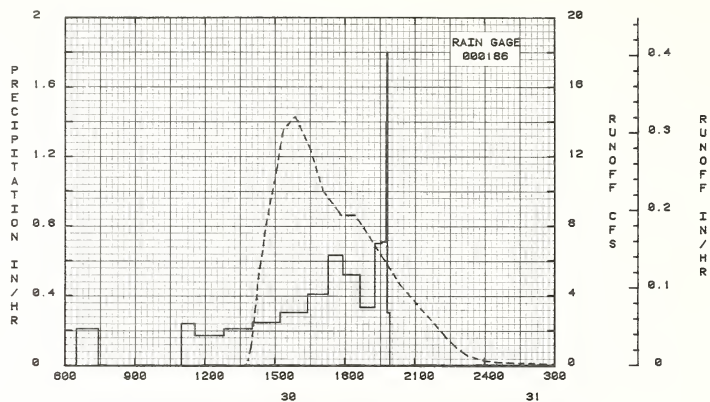
NOTES: Values obtained from two recording weighing type rain gages, No. 186 and Cotton Research Station gage. STA AV based on 8 yr (1965-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA					WATERSHED C-3		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.063	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.219	0.0	0.0	0.0	0.0	0.0	0.219	0.0	
13	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.0	
14	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	
20	0.0	0.0	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.167	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.035	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.999	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.001	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.597	0.0	0.0	0.0	0.0	0.0	2.729	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.018	0.0	0.0	
FEAR	0.0	0.0	0.0	0.0558	0.0074	0.0	0.0	0.0	0.0	0.1596	0.0109	0.0	
INCHES	0.0	0.0	0.0	0.900	0.123	0.0	0.0	0.0	0.0	2.661	0.177	0.0	
STA AV	0.008	0.010	0.037	0.426	0.521	0.382	0.244	0.445	0.463	0.626	0.096	0.026	

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.537769. STA AV based on 8 yr (1965-72) record period.

1972	SELECTED SUNCFF EVENT					CHICKASAW, OKLAHOMA					WATERSHED C-3		
ANTECEDENT CONDITIONS			RAINFALL			SUNCFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)			
EVENT OF OCTOBER 30 - 31, 1972													
RG 000186													
10-30	0.0	0.0	10-30	630	0.0	0.0	10-30	1344	0.0	0.0			
				727	0.2105	0.20		1347	0.037	0.0			
				1100	0.0	0.20		1351	0.288	0.0002			
				1135	0.2400	0.34		1352	0.393	0.0003			
				1250	0.1680	0.55		1357	0.909	0.0016			
WATERSHED CONDITIONS:													
100% cultivation, continuous													
irrigated cotton, last													
irrigation in August,													
last cultivation in July.													
				1402	0.2083	0.80		1401	1.357	0.0033			
				1513	0.2451	1.09		1407	2.743	0.0078			
				1624	0.3042	1.45		1411	3.446	0.0124			
				1717	0.4075	1.81		1417	4.974	0.0220			
				1755	0.6316	2.21		1424	5.978	0.0364			
				1839	0.5182	2.59		1437	8.087	0.0703			
				1917	0.3316	2.80		1507	11.540	0.1802			
				1935	0.7000	3.01		1513	12.530	0.2076			
				1946	0.7091	3.14		1522	13.570	0.2510			
				1949	1.3599	3.21		1552	14.290	0.4071			
				1950	1.8004	3.24		1629	12.530	0.5926			
				1956	0.3000	3.27		1704	10.010	0.7406			
								1751	8.610	0.9036			
								1827	8.610	1.0197			
								1943	5.978	1.2265			
								2022	4.604	1.3034			
								2223	1.532	1.4422			
								2248	0.976	1.4538			
								2317	0.521	1.4619			
								2400	0.229	1.4679			
								10-31	31	0.155	1.4701		
									101	0.116	1.4716		
									240	0.047	1.4746		
									353	0.022	1.4755		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02241.



LOCATION: Grady County, Oklahoma; NE 1/4, sec. 35, E. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 29.93 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)															CHICKASAW, OKLAHOMA				WATERSHED C-4		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual							
1972	P	0.08	0.49	0.28	5.49	3.13	0.83	0.63	1.06	0.59	9.42	2.36	0.31	24.67							
	Q	0.0	0.0	0.0	0.653	0.105	0.0	0.0	0.0	0.0	3.129	0.193	0.0	4.079							
STA AV	P	0.67	1.12	1.57	3.00	3.53	2.11	1.86	2.73	3.69	2.98	1.15	0.92	25.34							
	Q	0.003	0.008	0.023	0.255	0.471	0.255	0.235	0.333	0.289	0.634	0.098	0.016	2.620							
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																					
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval													
		Date	Date	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days									
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date							
1972		10-30	0.304	10-30	0.293	10-30	0.576	10-30	1.416	10-30	1.569	10-30	2.663	10-30	3.182						
		11-4																			
MAXIMUMS FOR PERIOD OF RECORD																					
		5-31	0.489	5-31	0.384	5-14	0.671	10-30	1.416	10-2	1.676	10-30	2.663	10-30	3.182						
		1971		1971		1970		1972		1971		1972		1972							

NOTES: Watershed conditions: 100% cultivation, continuous irrigated cotton. Last cultivation in June and last irrigation in August. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Res. Pub. 1216, pp. 69-131 and 69-133-1. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 186 and 187. Precipitation and runoff records began September 1, 1965. STA AV based on 8 yr (1965-72) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

		DAILY PRECIPITATION (inches)						CHICKASAW, OKLAHOMA				WATERSHED C-4		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.24	0.0	
2	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.25	0.0	0.46	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.02	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.29	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.13	
12	0.0	0.0	0.0	0.0	0.0	1.84	0.03	0.01	0.0	0.0	0.0	0.96	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.16	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.01	
15	0.0	0.0	0.0	0.0	1.33	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.01	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.66	0.0	
19	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.01	1.06	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.04	0.02	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.11	3.41	0.19	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.06	0.0	0.0	
23	0.0	0.0	0.27	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.14	0.0	0.0	0.21	0.0	
25	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.04	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	
27	0.03	0.0	0.0	0.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.54	1.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	
30	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	3.29	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.29	0.0	0.0	
TOTAL	0.08	0.49	0.28	5.45	3.13	0.83	0.63	1.06	0.59	9.42	2.36	0.31		
STA AV	0.67	1.12	1.57	3.00	3.53	2.11	1.86	2.73	3.69	2.98	1.15	0.92		

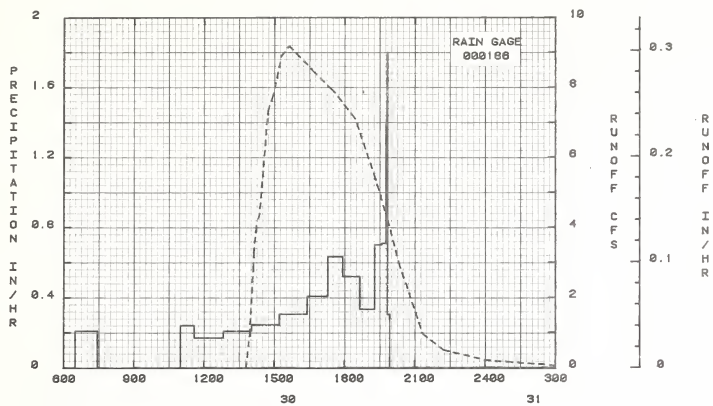
NOTES: Precipitation values obtained from two weighing recording type rain gages, Nos. 186 and 187. STA AV based on 8 yr (1965-72) record period.

1972 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED C-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.124	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.132	0.0	0.0	0.0	0.0	0.0	0.082	0.0
13	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.014	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.022	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
20	0.0	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.351	0.0	0.0	0.0	0.0	0.0	1.563	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.517	0.0	0.0
MEAN	0.0	0.0	0.0	0.0274	0.0043	0.0	0.0	0.0	0.0	0.1269	0.0081	0.0
INCHES	0.0	0.0	0.0	0.653	0.105	0.0	0.0	0.0	0.0	3.129	0.193	0.0
STA 1V	0.003	0.008	0.023	0.255	0.471	0.255	0.235	0.333	0.289	0.634	0.098	0.016

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.795244. STA 1V based on 8 yr (1965-72) record period.

1972 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSHED C-4												
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF OCTOBER 30 - 31, 1972												
BG 000186												
10-30	0.0	0.0	10-30	630	0.0	0.0	10-30	1348	0.0	0.0		
				727	0.2105	0.20		1357	0.900	0.0024		
				1100	0.0	0.20		1406	2.837	0.0117		
				1135	0.2400	0.34		1408	3.409	0.0153		
				1250	0.1680	0.55		1414	4.050	0.0274		
WATERSHED CONDITIONS:												
OK cultivation continuous												
irrigated cotton. Last												
cultivation in June and												
last irrigation in August.												
				1402	0.2083	0.80		1422	4.396	0.0460		
				1513	0.2451	1.09		1443	7.341	0.1144		
				1624	0.3042	1.45		1458	7.841	0.1773		
				1717	0.4075	1.81		1517	8.902	0.2651		
				1755	0.6316	2.21		1537	9.180	0.3646		
				1839	0.5182	2.59		1648	8.361	0.7086		
				1917	0.3316	2.80		1735	7.841	0.9194		
				1935	0.7000	3.01		1827	7.095	1.1340		
				1946	0.7091	3.14		1920	5.341	1.3159		
				1949	1.3999	3.21		1954	4.050	1.4040		
				1950	1.8004	3.24		2019	2.974	1.4526		
				1956	0.3000	3.27		2121	0.940	1.5195		
								2214	0.492	1.5404		
								2400	0.209	1.5610		
							10-31	111	0.139	1.5678		
								423	0.048	1.5777		
								452	0.048	1.5785		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03314.



EVENT OF OCTOBER 30 - 31, 1972
CHICKASHA, OKLAHOMA WATERSHED C-4

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 12.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA		WATERSHED C-5	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1972	P 0.08	0.51	0.29	5.53	3.19	0.82	0.60	1.14	0.60	9.40	2.32	0.30	24.78			
	Q 0.0	0.0	0.0	0.216	0.112	0.0	0.0	0.0	0.0	1.788	0.081	0.0	2.197			
STA AV	P 0.66	1.10	1.54	2.97	3.43	2.12	1.69	3.42	3.62	2.94	1.12	0.91	25.54			
	Q 0.0	0.0	0.056	0.209	0.116	0.058	0.003	0.050	0.145	0.431	0.019	0.001	1.086			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge				Maximum Volume for Selected Time Interval												
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days								
Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1972	10-30	0.233	10-2	0.217	10-30	0.368	10-31	0.841	10-31	1.076	10-30	1.541	10-30	1.830	11-4	1.831
MAXIMUMS FOR PERIOD OF RECORD																
10-2	0.593	10-2	0.546	10-2	0.881	10-2	1.541	10-2	1.632	10-2	1.645	10-30	1.830	11-4	1.831	
1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1972	1972	1972	1972		

NOTES: Watershed conditions: 100% cultivation, continuous dry land wheat. Harvested June 4, disked 6-8 inches deep June 6, used 12 inch sweep 6 inches deep 6-21, chiseled 10 inches deep 6-23, disked 5-6 inches deep October 7. For general description of map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, USDA Misc. Pub. 1216, p. 69.34-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two weighting recording type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 8 yr (1965-72) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA		WATERSHED C-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.01	0.02	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.23	0.0				
2	0.0	0.01	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0				
3	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.01	0.0	0.25	0.0	0.46	0.0	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
6	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.04	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.03	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.31	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13			
12	0.0	0.0	0.0	0.0	1.81	0.03	0.01	0.0	0.0	0.0	0.0	0.56	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.17	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.01			
15	0.0	0.0	0.0	1.31	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.01			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.05	0.65	0.0	0.0			
19	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.01	1.12	0.0	0.0	0.0	0.0	0.0	0.26	0.04	0.02	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.11	3.39	0.18	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.06	0.0	0.0	0.0			
23	0.0	0.0	0.28	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.15	0.0	0.0	0.20	0.0	0.0			
25	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.03	0.0	0.0	1.22	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0			
27	0.08	0.0	0.0	0.84	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.56	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0			
30	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	3.28	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.29	0.0	0.0	0.0			
TOTAL	0.08	0.51	0.25	5.53	3.19	0.82	0.60	1.14	0.60	9.40	2.32	0.30				
STA AV	0.66	1.10	1.54	2.97	3.43	2.12	1.69	3.42	3.62	2.94	1.12	0.91				

NOTES: Precipitation values obtained from two weighting recording type rain gages, Nos. 185 and 187. STA AV based on 8 yr (1965-72) record period.

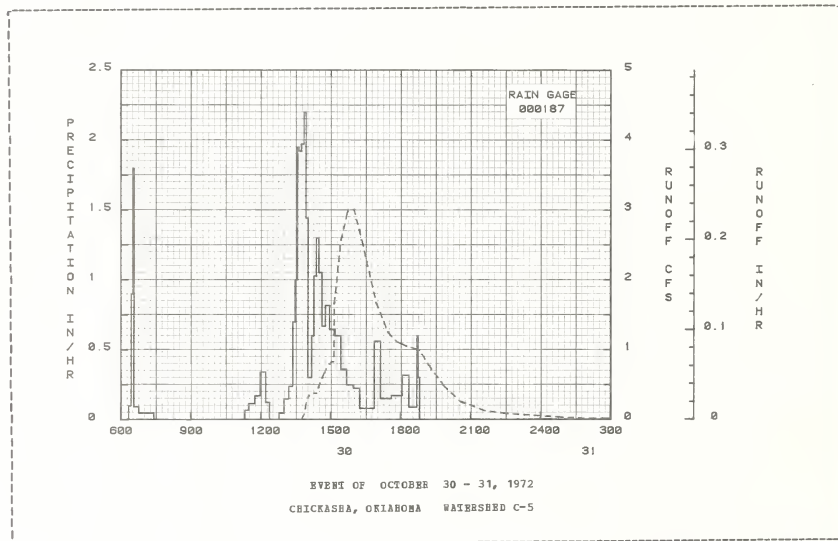
1972							CHICKASHA, OKLAHOMA					WATERSHED C-5				
SEAS DAILY DISCHARGE (cfs)																
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.023	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.0	0.0	0.060	0.0	0.0	0.0	0.0	0.0	0.006	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.0	0.0				
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0				
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.096	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.365	0.0	0.0				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.596	0.0	0.0				
SEAS	0.0	0.0	0.0	0.0039	0.0019	0.0	0.0	0.0	0.0	0.0310	0.0015	0.0				
INCHRS	0.0	0.0	0.0	0.216	0.112	0.0	0.0	0.0	0.0	1.788	0.081	0.0				
STA AV	0.0	0.0	0.056	0.209	0.116	0.058	0.003	0.050	0.145	0.431	0.019	0.001				

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.859504. STA AV based on 8 yr (1965-72) record period.

1972 SELECTED RUNOFF EVENT												CHICKASHA, OKLAHOMA WATERSHED C-5											
ANTECEDENT CONDITIONS						RAINFALL						RUNOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		Date	Time	Rate	Acc.								
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(cfs)	(inches)								
EVENT OF OCTOBER 30 - 31, 1972																							
EG 000187						EG 000187																	
10-30	0.02	0.0	10-30	621	0.0	0.0	10-30	1345	0.0	0.0													
				627	0.1000	0.01		1352	0.078	0.0003													
				631	0.9000	0.07		1357	0.239	0.0014													
				634	1.8000	0.16		1401	0.318	0.0028													
				647	0.0923	0.18		1405	0.347	0.0045													
WATERSHED CONDITIONS:																							
100% cultivation, continuous						726	0.0462	0.21	1418	0.378	0.0105												
dry land wheat. Harvested						1120	0.0	0.21	1424	0.378	0.0135												
June 4, disked 6-8 inches						1129	0.0667	0.22	1438	0.598	0.0224												
deep June 6, used 12 inch						1145	0.1125	0.25	1449	0.732	0.0319												
sweep 6 inches deep 6-21,						1159	0.1714	0.29	1501	0.830	0.0440												
chiseled 10 inches deep																							
6-23, disked 5-6 inches						1213	0.3429	0.37	1508	0.830	0.0515												
deep October 7.						1223	0.1200	0.39	1509	1.671	0.0530												
						1247	0.0	0.39	1526	2.576	0.0993												
						1300	0.0462	0.40	1544	3.007	0.1644												
						1312	0.1500	0.43	1559	3.007	0.2226												
						1322	0.2400	0.47	1623	2.475	0.3080												
						1328	0.7000	0.54	1657	1.671	0.3990												
						1334	1.6000	0.64	1728	1.239	0.4571												
						1338	1.9500	0.77	1751	1.112	0.4920												
						1343	1.9200	0.93	1815	1.051	0.5257												
						1350	1.9714	1.16	1848	0.993	0.5690												
						1356	2.2000	1.38	1912	0.780	0.5966												
						1401	1.4400	1.50	1951	0.480	0.6283												
						1411	0.3000	1.55	2033	0.264	0.6485												
						1416	0.6000	1.60	2138	0.121	0.6647												
						1423	1.0286	1.72	2237	0.078	0.6723												
						1429	1.3000	1.85	2400	0.045	0.6789												
						1437	1.6500	1.99	10-31	45	0.027	0.6810											
						1446	0.6667	2.09	210	0.014	0.6832												
						1457	0.8182	2.24	359	0.008	0.6847												

1972 SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA				WATERSSEED C-5			
PRECEDENT CONDITIONS			RAINFALL			RUMCFP				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1972 (CONTINUED)										
10-30	1511				0.6429	2.39	10-31	458	0.008	0.6853
	1526				0.6000	2.54				
	1541				0.3600	2.63				
	1558				0.2471	2.70				
	1614				0.2250	2.76				
	1652				0.0789	2.81				
	1708				0.5625	2.96				
	1736				0.1500	3.03				
	1804				0.1714	3.11				
	1821				0.3177	3.20				
	1842				0.0857	3.23				
	1845				0.6000	3.26				
	1849				0.3000	3.28				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07748.



LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 13.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA				WATERSHED C-6			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual								
1972 P	0.09	0.51	0.30	5.54	3.19	0.80	0.58	1.16	0.60	9.81	2.32	0.29	24.79								
	0.0	0.0	0.0	0.307	0.143	0.0	0.0	0.0	0.0	1.728	0.064	0.0	2.242								
STA AV P	0.66	1.10	1.53	2.99	3.43	2.11	1.68	3.43	3.61	2.95	1.12	0.91	25.52								
	0.002	0.010	0.099	0.209	0.145	0.073	0.004	0.109	0.231	0.446	0.036	0.010	1.375								
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																					
Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days					
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1972	10-30	0.285	10-30	0.249	10-30	0.397	10-31	0.814	10-31	0.999	10-30	1.500	10-30	1.769	11- 4	1.775					
MAXIMUMS FOR PERIOD OF RECORD																					
10- 2	0.877	10- 2	0.776	10- 2	1.123	10- 2	1.695	10- 2	1.761	10- 2	1.763	10-30	1.769	11- 4	1.775						
1971		1971		1971		1971		1971		1971		1972		1972							

NOTES: Watershed conditions: 100% cropland, planted to wheat in fall of 1971 and harvested for grain in June 1972. Watershed was moldboard plowed soon after harvest and remained in rough condition until about mid-Oct. 1972, when watershed was disked and spring-tooth harrowed, in preparation for seeding to wheat. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69-75. Maps - revised composite, p. 69-72; topography, p. 69-34 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two weighting recording type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 8 yr (1965-72) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.02	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.23	0.0	
2	0.0	0.01	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.01	0.0	0.25	0.0	0.46	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
6	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.03	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	
10	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.31	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.12	
12	0.0	0.0	0.0	0.0	1.80	0.03	0.01	0.0	0.0	0.0	0.96	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.17	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.01	
15	0.0	0.0	0.0	1.31	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.01	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.05	0.65	0.0	
19	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.01	1.13	0.0	0.0	0.0	0.0	0.0	0.27	0.04	0.02	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.11	3.39	0.18	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.06	0.0	0.0	
23	0.0	0.0	0.29	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.15	0.0	0.0	0.20	0.0	
25	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.03	0.0	0.0	1.22	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	
27	0.05	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.57	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.12	
30	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	3.28	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.29	0.0	0.0	
TOTAL	0.09	0.51	0.30	5.54	3.19	0.80	0.58	1.16	0.60	9.41	2.32	0.29	
STA AV	0.66	1.10	1.53	2.99	3.43	2.11	1.68	3.43	3.61	2.95	1.12	0.91	

NOTES: Precipitation values obtained from two weighting recording type rain gages, Nos. 185 and 187. STA AV based on 8 yr (1965-72) record period.

1972													CHICKASAW, OKLAHOMA WATERSHED C-6												
MEAN DAILY DISCHARGE (cfs)																									
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
12	0.0	0.0	0.0	0.0	0.078	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
27	0.0	0.0	0.0	0.0	0.136	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
30	0.0	0.0	0.0	0.032	0.0	0.0	0.0	0.0	0.0	0.382	0.0	0.0													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.562	0.0	0.0													
MEAN	0.0	0.0	0.0	0.0056	0.0025	0.0	0.0	0.0	0.0	0.0304	0.0012	0.0													
INCHES	0.0	0.0	0.0	0.307	0.143	0.0	0.0	0.0	0.0	1.728	0.064	0.0													
STA AV	0.002	0.010	0.099	0.209	0.145	0.073	0.004	0.109	0.231	0.446	0.036	0.010													

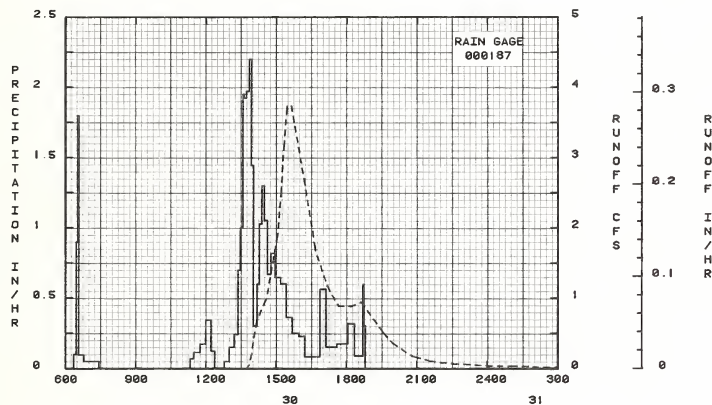
NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.830896. STA AV based on 8 yr (1965-72) record period.

1972 SELECTED RUNOFF EVENT												CHICKASAW, OKLAHOMA WATERSHED C-6											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF																
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		Date	Time	Rate	Acc.								
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(cfs)	(inches)								
EVENT OF OCTOBER 30 - 31, 1972																							
EG 000187				EG 000187																			
10-30	0.02	0.0	10-30	621	0.0	0.0	10-30	1345	0.0	0.0													
				627	0.1000	0.01		1351	0.045	0.0002													
				631	0.3000	0.07		1355	0.137	0.0007													
				634	1.6000	0.16		1403	0.444	0.0036													
				647	0.0923	0.18		1411	0.685	0.0093													
WATERSHED CONDITIONS:				726	0.0462	0.21		1435	0.993	0.0351													
100% cultivation, continuous				1120	0.0	0.21		1454	1.593	0.0663													
dry land wheat. Disked 6-8				1129	0.0667	0.22		1504	1.917	0.0888													
inches deep and used 12 inch				1145	0.1125	0.25		1513	2.576	0.1142													
sweep 6 inches deep and				1159	0.1714	0.29		1520	3.238	0.1402													
chiseled 10 inches deep																							
in June and disked 5-6																							
inches deep on October				1213	0.3429	0.37		1527	3.731	0.1714													
7.				1223	0.1200	0.39		1538	3.731	0.2237													
				1247	0.0	0.39		1611	2.680	0.3574													
				1300	0.0462	0.40		1641	1.671	0.4404													
				1312	0.1500	0.43		1711	1.174	0.4947													
				1322	0.2400	0.47		1740	0.883	0.5327													
				1328	0.7000	0.54		1810	0.883	0.5664													
				1334	1.0000	0.64		1838	0.937	0.5989													
				1338	1.5000	0.77		1932	0.517	0.6487													
				1343	1.9200	0.93		1944	0.444	0.6560													
				1350	1.9714	1.16		1959	0.347	0.6635													
				1356	2.2000	1.38		2048	0.174	0.6797													
				1401	1.4400	1.50		2109	0.137	0.6839													
				1411	0.3000	1.55		2134	0.100	0.6877													
				1416	0.6000	1.60		2202	0.078	0.6909													
				1423	1.0286	1.72		2234	0.062	0.6938													
				1429	1.3000	1.85		2317	0.045	0.6967													
				1437	1.0500	1.99		2400	0.033	0.6988													
				1446	0.6667	2.09	10-31	104	0.027	0.7012													
				1457	0.8182	2.24		240	0.014	0.7037													

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07629.

1972 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA				WATERSHED C-6			
PRECEDING CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1972 (CONTINUED)										
10-30			1511		0.6429	2.39	10-31	421	0.008	0.7051
			1526		0.6000	2.54				
			1541		0.3600	2.63				
			1558		0.2471	2.70				
			1614		0.2250	2.76				
			1652		0.0789	2.81				
			1708		0.5625	2.96				
			1736		0.1500	3.03				
			1804		0.1714	3.11				
			1821		0.3177	3.20				
			1842		0.0857	3.23				
			1845		0.6000	3.26				
			1849		0.3000	3.28				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07629.



EVENT OF OCTOBER 30 - 31, 1972
CHICKASHA, OKLAHOMA WATERSHED C-6

CHICKASHA, OKLAHOMA WATERSHED C-7

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 26.52 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												CHICKASHA, OKLAHOMA WATERSHED C-7			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1972	P	0.09	0.53	0.30	5.58	3.21	0.81	0.57	1.18	0.62	9.44	2.34	0.31	24.98	
	Q	0.0	0.0	0.0	0.329	0.045	0.0	0.0	0.0	2.256	0.055	0.0		2.665	
STA AV	P	0.66	1.10	1.51	2.97	3.41	2.11	1.67	3.41	3.60	2.94	1.12	0.91	25.40	
	Q	0.0	0.014	0.010	0.327	0.209	0.203	0.112	0.325	0.324	0.554	0.037	0.006	2.121	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
Maximum Discharge				Maximum Volume for Selected Time Interval											
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Date	Date	Date	Date	Date	Date
1972	10-30	0.341	10-30 0.321	10-30 0.570	10-30 1.107	10-30 1.170	10-30 1.891	10-30 2.220	11-4	2.220					
MAXIMUMS FOR PERIOD OF RECORD															
	4-12	0.957	4-12 0.637	4-12 0.824	10-2 1.379	10-2 1.596	10-30 1.891	10-30 2.220	11-4	2.220					
1967	1967		1967	1967	1971	1971	1972	1972	1972						

NOTES: Watershed conditions: 100% cropland. North portion was planted to alfalfa in fall of 1966. South portion of watershed was planted to grain sorghums. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.36-1 and 69.36-3. Monthly precipitation data from Thiessen weighted rainfall value from two recording weighting type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 8 yr (1965-72) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-7			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.01	0.02	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.23	0.0			
2	0.0	0.01	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.01	0.24	0.0	0.47	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
6	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.04	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.03	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0			
10	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.32	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	1.79	0.04	0.01	0.0	0.0	0.0	0.57	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.17	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	1.31	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.66	0.0			
19	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.01	1.15	0.0	0.0	0.0	0.0	0.0	0.27	0.03	0.02			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.12	3.40	6.18	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.06	0.0	0.06	0.0	0.0			
23	0.0	0.0	0.29	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.15	0.0	0.0	0.20	0.0			
25	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.03	0.0	0.0	1.22	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0			
27	0.05	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.58	1.25	0.0	0.0	0.0	0.0	0.0	0.0	0.13			
30	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	3.27	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.31	0.0	0.0			
TOTAL	0.09	0.53	0.30	5.58	3.21	0.81	0.57	1.18	0.62	5.44	2.34	0.31			
STA AV	0.66	1.10	1.51	2.97	3.41	2.11	1.67	3.41	3.60	2.94	1.12	0.91			

NOTES: Precipitation values obtained from two recording weighting type rain gages, Nos. 185 and 187. STA AV based 8 yr (1965-72) record period.

1972		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA					WATERSHED C-7		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.006	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.048	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.277	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.075	0.0	0.0	0.0	0.0	0.0	1.302	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.162	0.0	0.0		
MEAN	0.0	0.0	0.0	0.0122	0.0016	0.0	0.0	0.0	0.0	0.011	0.0020	0.0		
INCREAS	0.0	0.0	0.0	0.329	0.045	0.0	0.0	0.0	0.0	2.256	0.055	0.0		
STA AV	0.0	0.014	0.010	0.327	0.209	0.203	0.112	0.325	0.324	0.554	0.037	0.006		

NOTES: To convert discharge in CFS to IN/DAI, multiply by 0.697498. STA AV based on 6 yr (1965-72) record period.

1972		SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA					WATERSHED C-7		
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)				
EVENT OF OCTOBER 30 - 31, 1972														
RG 000185			RG 000185											
10-30	0.22	0.0	10-30	1107	0.0	0.0	10-30	1349	0.0	0.0				
				1140	0.0	0.0		1357	0.780	0.0019				
				1183	0.4000	0.02		1358	1.051	0.0024				
				1210	0.2889	0.15		1400	1.305	0.0039				
				1225	0.1600	0.19		1405	2.680	0.0100				
WATERSHED CONDITIONS:				1310	0.0267	0.21		1407	3.121	0.0134				
North portion of field in				1315	0.3600	0.24		1412	3.357	0.0238				
alfalfa, last harvested July				1320	0.1200	0.25		1419	3.357	0.0385				
16. South portion of field				1325	0.9600	0.33		1422	3.238	0.0443				
in grain sorghum harvested				1332	0.1714	0.35		1427	4.701	0.0614				
August 29.				1345	2.0769	0.80		1449	6.331	0.1233				
				1353	2.2500	1.10		1500	7.068	0.1693				
				1356	0.6000	1.13		1510	7.856	0.2151				
				1403	1.2000	1.27		1514	8.480	0.2354				
				1415	0.1000	1.29		1527	9.133	0.3074				
				1420	0.6000	1.34		1540	8.912	0.3799				
				1444	1.0500	1.76		1609	7.856	0.5318				
				1455	0.5455	1.86		1659	5.159	0.7343				
				1520	0.8160	2.20		1729	4.410	0.8238				
				1540	0.3300	2.31		1808	3.862	0.9247				
				1553	0.4615	2.41		1826	3.731	0.9668				
				1610	0.1500	2.46		1946	1.593	1.0598				
				1630	0.0600	2.48		2025	0.937	1.1305				
				1640	0.2400	2.52		2112	0.444	1.1508				
				1700	0.2700	2.61		2153	0.216	1.1592				
				1722	0.3000	2.72		2306	0.089	1.1661				
				1742	0.2400	2.80		2400	0.045	1.1684				
				1815	0.3273	2.98		25	0.027	1.1690				
				1835	0.1500	3.03	10-31	100	0.027	1.1695				
				1909	0.0	3.03		315	0.004	1.1708				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03740.

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03740.



LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, E. 7 N., T. 7 N., about 3-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 27.28 acres

MONTHLY PRECIPITATION AND RUOFF (inches)														CHICKASHA, OKLAHOMA				WATERSHED C-8			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual								
1972	P 0.10	0.52	0.32	6.06	3.39	0.81	0.53	1.28	0.68	9.90	2.49	0.32	26.40								
	Q 0.0	0.0	0.0	0.018	0.002	0.0	0.0	0.0	0.0	0.656	0.035	0.0	0.711								
STA AV	P 0.67	1.13	1.53	2.88	3.50	2.11	1.72	3.42	3.59	3.09	1.15	0.92	25.69								
	Q 0.0	0.0	0.009	0.070	0.022	0.011	0.059	0.163	0.129	0.265	0.004	0.0	0.732								
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUOFF (inches) FOR SELECTED TIME INTERVALS																					
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days							
	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.						
1972	10-31	0.083	10-31	0.080	10-31	0.152	10-31	0.389	10-31	0.530	10-31	0.566	11-10	0.671	11-8	0.671					
MAXIMUMS FOR PERIOD OF RECORD																					
10-2	0.858	10-2	0.693	10-2	0.998	10-2	1.405	10-2	1.458	10-2	1.458	10-1	1.458	9-25	1.458						
1971		1971		1971		1971		1971		1971		1971		1971							

NOTES: Watershed conditions: 100% cropland, entire watershed was planted to wheat in mid-Oct. 1971 and harvested for grain in mid-June 1972. Watershed was disked 6-10 inches deep in late June 1972. Area remained in rough condition until mid-Oct. 1972 when watershed was disked in preparation for seeding to wheat in mid-Oct. 1972. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.37-1. Maps - revised composite, p. 69.7-21; topography, p. 69.37-5 of foregoing reference. Monthly precipitation obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 186. Precipitation and runoff records began April 1, 1965. STA AV based on 8 yr (1965-72) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA		WATERSHED C-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.01	0.02	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.24	0.0			
2	0.0	0.01	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.01	0.0	0.24	0.0	0.51	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01			
6	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.05	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.03	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0			
10	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12			
12	0.0	0.0	0.0	0.0	1.85	0.03	0.01	0.0	0.0	0.0	1.04	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.21	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01			
15	0.0	0.0	0.0	1.33	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.01			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.66	0.0			
19	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.01	1.37	0.0	0.0	0.0	0.0	0.0	0.28	0.03	0.02			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.14	3.51	0.19	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.06	0.0	0.0			
23	0.0	0.0	0.31	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.15	0.0	0.0	0.25	0.0			
25	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.03	0.0	0.0	1.28	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0			
27	0.06	0.0	0.0	0.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.67	1.38	0.0	0.0	0.0	0.0	0.15	0.0	0.0			
30	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	3.43	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.48	0.0	0.0	0.0			
TOTAL	0.10	0.52	0.32	6.06	3.39	0.61	0.53	1.28	0.68	9.90	2.49	0.32			
STA AV	0.67	1.13	1.53	2.88	3.50	2.11	1.72	3.42	3.59	3.09	1.15	0.92			

NOTES: Precipitation values obtained from two recording type rain gages, Nos. 185 and 186. STA AV based on 8 yr (1965-72) record period.

1972		MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA				WATSHED C-8			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.006	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.117	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.626	0.0	0.0		
MEAN	0.0	0.0	0.0	0.0007	0.0001	0.0	0.0	0.0	0.0	0.0242	0.0013	0.0		
INCHES	0.0	0.0	0.0	0.018	0.002	0.0	0.0	0.0	0.0	0.656	0.035	0.0		
STA AV	0.0	0.0	0.009	0.070	0.022	0.011	0.059	0.163	0.129	0.265	0.004	0.0		

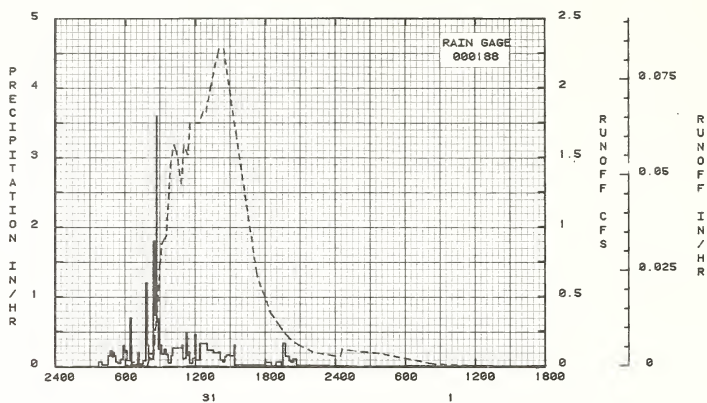
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.872495. STA AV based on 8 yr (1965-72) record period.

1972		SELECTED RUNOFF EVENT				CHICKASAW, OKLAHOMA				WATSHED C-8			
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF					
Date	Rainfall	Runoff		Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)		Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF OCTOBER 31 - NOVEMBER 1, 1972													
BG 000188				BG 000188									
10-31	0.0	0.0		10-31	342	0.0	0.0	10-31	559	0.0	0.0		
					400	0.0667	0.02		612	0.011	0.0		
					430	0.0200	0.03		628	0.011	0.0001		
					442	0.1500	0.06		633	0.022	0.0001		
					450	0.2250	0.09		639	0.027	0.0002		
WATSHED CONDITIONS:					459	0.1333	0.11		646	0.027	0.0003		
100% cultivation. Bar-					502	0.2000	0.12		705	0.011	0.0005		
vested wheat June 5.					510	0.1500	0.14		740	0.004	0.0007		
Dinked 6-10 inches deep					520	0.0600	0.15		753	0.004	0.0007		
in June and 4-6 inches					535	0.0400	0.16		804	0.062	0.0009		
deep on October 7.					587	0.1000	0.18		809	0.089	0.0011		
					551	0.3000	0.20		816	0.089	0.0015		
					600	0.2000	0.23		827	0.078	0.0021		
					608	0.2250	0.26		832	0.216	0.0025		
					623	0.0800	0.28		838	0.318	0.0035		
					629	0.7000	0.35		842	0.318	0.0043		
					631	0.3000	0.36		857	0.732	0.0091		
					705	0.0176	0.37		908	0.083	0.0145		
					711	0.2000	0.39		931	0.937	0.0272		
					730	0.0316	0.40		951	1.445	0.0416		
					745	0.0800	0.42		1009	1.593	0.0582		
					750	1.2000	0.52		1026	1.518	0.0741		
					800	0.3000	0.57		1046	1.305	0.0913		
					823	0.1093	0.61		1100	1.593	0.1036		
					830	1.8000	0.82		1120	1.518	0.1224		
					839	0.7333	0.93		1132	1.751	0.1342		
					841	3.6001	1.05		1200	1.751	0.1640		
					850	0.6667	1.15		1220	1.751	0.1851		
					900	0.2400	1.19		1239	1.833	0.2057		
					906	0.3000	1.22		1254	1.833	0.2224		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03636.

1972	SELECTED RUNOFF EVENT				CHICKASAW, OKLAHOMA				WATERSHED C-8			
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF OCTOBER 31 - NOVEMBER 1, 1972 (CONTINUED)												
			10-31	920	0.1714	1.26	10-31	1316	2.004	0.2480		
				930	0.2400	1.30		1359	2.279	0.3037		
				941	0.1636	1.33		1424	2.279	0.3363		
				955	0.0429	1.34		1527	1.671	0.4137		
				1003	0.1500	1.36		1717	0.641	0.4907		
				1051	0.2625	1.57		1827	0.378	0.5123		
				1055	0.3000	1.59		1925	0.264	0.5236		
				1112	0.1059	1.62		2008	0.194	0.5296		
				1117	0.4600	1.66		2050	0.155	0.5340		
				1120	0.4000	1.68		2203	0.100	0.5396		
				1128	0.1500	1.70		2400	0.070	0.5456		
				1131	0.2000	1.71	11- 1	26	0.070	0.5467		
				1147	0.0375	1.72		35	0.121	0.5472		
				1158	0.1091	1.74		117	0.112	0.5502		
				1202	0.4500	1.77		219	0.100	0.5542		
				1223	0.0857	1.80		342	0.089	0.5590		
				1300	0.3243	2.00		720	0.027	0.5667		
				1332	0.2250	2.12		836	0.014	0.5676		
				1357	0.1920	2.20		1200	0.0	0.5685		
				1406	0.2000	2.23						
				1420	0.0857	2.25						
				1430	0.0600	2.26						
				1439	0.1333	2.28						
				1458	0.1579	2.33						
				1519	0.1429	2.38						
				1521	0.3000	2.39						
				1600	0.0154	2.40						
				1640	0.0150	2.41						
				1757	0.0156	2.43						
				1830	0.0545	2.46						
				1851	0.0	2.46						
				1853	0.0	2.46						
				1922	0.0621	2.49						
				1930	0.0	2.49						
				1941	0.3273	2.55						
				1954	0.1385	2.58						
				2003	0.1333	2.60						
				2011	0.0750	2.61						
				2022	0.0545	2.62						
				2040	0.1000	2.65						
				2148	0.0088	2.66						
				2329	0.0059	2.67						

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03636.



EVENT OF OCTOBER 31 - NOVEMBER 1, 1972
CHICKASHA, OKLAHOMA WATERSHED C-8

LOCATION: Caddo County, Oklahoma; NE 1/4, sec. 21, T. 8 N., R. 9 W., about 4-3/4 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 17.76 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA						WATERSHED R-1	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	0.09	0.39	0.41	2.28	3.28	0.95	1.10	2.00	0.32	7.21	1.82	0.67	20.52
Q	0.0	0.0	0.0	0.001	0.004	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.011
STA AV P	0.60	0.95	1.41	3.03	3.54	3.72	1.51	3.01	3.82	2.45	1.66	0.97	26.67
Q	0.0	0.0	0.0	0.015	0.012	0.032	0.0	0.004	0.005	0.001	0.003	0.0	0.071

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-2, R-3 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. The watershed was fertilized and sprigged to bermuda in 20-inch rows in spring of 1972. Because of unfavorable weather conditions, a poor stand resulted. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.38-1 and 69.38-2. Precipitation data obtained from recording rain gage No. 189. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. STA AV based on 11 yr (1962-72) record period. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATIONS (inches)						CHICKASHA, OKLAHOMA						WATERSHED R-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.04	0.03	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.10	0.0	
2	0.0	0.02	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.05	0.0	0.23	0.05	0.22	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
6	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.23	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.25	
12	0.0	0.0	0.0	0.0	1.72	0.12	0.27	0.0	0.0	0.0	0.44	0.02	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.03	
15	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.05	0.69	0.0	
19	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.76	0.06	0.0	
21	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.71	0.10	2.60	0.19	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.02	0.0	0.0	
23	0.0	0.0	0.41	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.29	0.0	
25	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	1.73	0.0	
26	0.02	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	
27	0.03	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.73	1.22	0.04	0.0	0.0	0.0	0.02	0.0	0.35	
30	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.30	0.0	2.00	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.73	0.0	0.0	
TOTAL	0.09	0.39	0.41	2.28	3.28	0.95	1.10	2.00	0.32	7.21	1.82	0.67	
STA AV	0.60	0.95	1.41	3.03	3.54	3.72	1.51	3.01	3.82	2.45	1.66	0.97	

NOTES: Precipitation values obtained from one recording rain gage, No. 189. STA AV based on 11 yr (1962-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)													CHICKASAW, OKLAHOMA WATERSHED R-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MEAN	0.0	0.0	0.0	0.0	0.0001	0.0	0.0	0.0	0.0	0.0001	0.0	0.0		
INCRES	0.0	0.0	0.0	0.0001	0.004	0.0	0.0	0.0	0.0	0.006	0.0	0.0		
STA AV	0.0	0.0	0.0	0.015	0.012	0.032	0.0	0.004	0.005	0.001	0.003	0.0		

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.340183. STA AV based on 11 yr (1962-72) record period.

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N., R. 9 W., about 4-1/2 miles North and 2-3/4 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 24.08 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)					CHICKASHA, OKLAHOMA					WATERSHED R-2				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1972 P	0.07	0.34	0.34	2.12	3.01	0.90	1.03	1.58	0.34	6.79	1.75	0.64	18.91	0.64
Q	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.009	0.009
STA AV P	0.56	0.90	1.26	2.95	3.40	3.63	1.45	2.86	3.65	2.32	1.60	0.91	25.49	0.91
Q	0.001	0.0	0.002	0.044	0.026	0.040	0.001	0.025	0.027	0.007	0.008	0.004	0.184	0.184

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-1, R-3 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.39-1 and 69.39-2. Precipitation data obtained from recording rain gage No. 190. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. STA AV based on 11 yr (1962-72) record period. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA					WATERSHED R-2				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.02	0.02	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.10	0.0		
2	0.0	0.02	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.03	0.0	0.21	0.05	0.20	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.03	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.19	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.29
12	0.0	0.0	0.0	0.0	1.64	0.15	0.25	0.0	0.0	0.0	0.40	0.02		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.03		
15	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.05	0.68	0.0		
19	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.76	0.05	0.0		
21	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.60	0.14	2.60	0.18	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.02	0.0	0.0		
23	0.0	0.34	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.29	0.0		
25	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.03	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0		
27	0.02	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.65	1.03	0.06	0.0	0.0	0.0	0.01	0.30	0.0		
30	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.25	0.0	1.89	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.43	0.0	0.0		
TOTAL	0.07	0.34	0.34	2.12	3.01	0.50	1.03	1.58	0.34	6.79	1.75	0.64		
STA AV	0.56	0.90	1.26	2.95	3.40	3.63	1.45	2.86	3.65	2.32	1.60	0.91		

NOTES: Precipitation values obtained from one recording rain gage, No. 190. STA AV based on 11 yr (1962-72) record period.

1972													CHICKASHA, OKLAHOMA										WATERSHED E-2											
MEAN DAILY DISCHARGE (cfs)																																		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																						
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
12	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0																						
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
MEAN	0.0	0.0	0.0	0.0	0.0	0.0001	0.0	0.0	0.0	0.0002	0.0	0.0																						
INCHES	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.006	0.0	0.0																						
STA AV	0.001	0.0	0.002	0.044	0.026	0.040	0.001	0.025	0.027	0.007	0.008	0.004																						

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.588441. STA AV based on 11 yr (1962-72) record period.

LOCATION: Caddo County, Oklahoma; NE 1/4, sec/ 21. T. 8 N., E. 9 W., about 4-1/2 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 25.84 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED E-3							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	0.07	0.34	0.35	2.05	2.95	0.85	0.91	1.55	0.36	6.81	1.68	0.64	18.56
Q	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.004
STA AV P	0.55	0.90	1.27	2.92	3.32	3.59	1.42	2.84	3.57	2.32	1.57	0.89	25.16
Q	0.0	0.0	0.001	0.018	0.009	0.013	0.0	0.011	0.013	0.004	0.004	0.001	0.074

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds E-1, E-2 and E-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Risc. Pub. 1216, pp. 69.40-1 and 69.35-2. Precipitation data obtained from recording rain gage No. 191. Precipitation records began Jan. 1, 1962. STA AV based on 11 yr (1962-72) record period. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)						CHICKASHA, OKLAHOMA WATERSHED E-3						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.03	0.02	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.10	0.0
2	0.0	0.02	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.02	0.0	0.22	0.07	0.22	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.03	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.19	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.30
12	0.0	0.0	0.0	0.0	1.66	0.13	0.16	0.0	0.0	0.0	0.38	0.02
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.03
15	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
18	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.06	0.67	0.0
19	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.75	0.04	0.0
21	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.60	0.14	2.61	0.16	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.02	0.0	0.0
23	0.0	0.0	0.35	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.28	0.0	0.0
25	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.02	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0
27	0.02	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.68	1.05	0.06	0.0	0.0	0.0	0.01	0.0	0.29
30	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.24	0.0	1.89	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.44	0.0	0.0
TOTAL	0.07	0.34	0.35	2.05	2.95	0.85	0.91	1.55	0.36	6.81	1.68	0.64
STA AV	0.55	0.90	1.27	2.92	3.32	3.59	1.42	2.84	3.57	2.32	1.57	0.89

NOTES: Precipitation values obtained from one recording rain gage, No. 191. STA AV based on 11 yr (1962-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)											CHICKASAW, OKLAHOMA	WATERSEED E-3
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0001	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.003	0.0	0.0	
STA AV	0.0	0.0	0.001	0.018	0.009	0.013	0.0	0.011	0.013	0.004	0.004	0.001	

NOTES: To convert discharge in CPS to IN/DAY, multiply by 0.921117. STA AV based on 11 yr (1962-72) record period.

CHICKASAW, OKLAHOMA WATERSHED E-4

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N. E. 9 W., about 4-1/2 miles North and 2-1/2 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 18.12 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASAW, OKLAHOMA WATERSHED E-4						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	0.09	0.39	0.34	2.25	3.17	0.90	0.99	1.80	0.39	6.81	1.69	0.81	19.63
Q	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.003
STA AV P	0.59	0.89	1.25	3.04	3.61	3.79	1.44	2.95	3.81	2.41	1.61	0.95	26.33
Q	0.0	0.0	0.0	0.055	0.014	0.027	0.0	0.017	0.015	0.004	0.004	0.0	0.136

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds E-1, E-2 and E-3. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses, and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.41-1 and 69.41-2. Precipitation data obtained from recording rain gage No. 192. Precipitation records began Jan. 1, 1962. STA AV based on 11 yr (1962-72) record period. Run-off measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972	DAILY PRECIPITATION (inches)						CHICKASAW, OKLAHOMA WATERSHED E-4						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.04	0.03	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.08	0.0	
2	0.0	0.02	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.02	0.0	0.25	0.07	0.24	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
6	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.22	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.34	
12	0.0	0.0	0.0	0.0	1.80	0.12	0.16	0.0	0.0	0.0	0.41	0.01	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.05	
15	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.06	0.65	0.0	
19	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.73	0.04	0.0	
21	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.68	0.15	2.40	0.17	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.03	0.0	0.0	
23	0.0	0.0	0.34	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.29	0.0	
25	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.03	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
27	0.02	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.84	1.09	0.05	0.0	0.0	0.0	0.01	0.0	0.40	
30	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.21	0.0	1.66	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.67	0.0	0.0	
TOTAL	0.09	0.39	0.34	2.25	3.17	0.90	0.99	1.80	0.39	6.81	1.69	0.81	
STA AV	0.59	0.89	1.25	3.04	3.61	3.79	1.44	2.95	3.81	2.41	1.61	0.95	

NOTES: Precipitation obtained from one recording rain gage, No. 192. STA AV based on 11 yr (1962-72) record period.

1972		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA					WATERSHED 1-4		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0		
31	0.0		0.0		0.0		0.0	0.0		0.001				
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
INCHES	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.002	0.0	0.0		
STA AV	0.0	0.0	0.0	0.055	0.014	0.027	0.0	0.017	0.015	0.004	0.004	0.0		

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.313557. STA AV based on 11 yr (1962-72) record period.

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., E. 6 W., about 8 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin.

AREA: 23.72 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												CHICKASHA, OKLAHOMA WATERSHED R-5											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972	P 0.09	0.60	0.97	4.68	3.06	0.77	1.09	1.69	1.59	9.58	2.37	0.70	27.19										
	Q 0.0	0.0	0.0	0.077	0.051	0.0	0.0	0.0	0.0	1.094	0.225	0.0	1.448										
STA AV	P 0.72	1.13	1.60	3.01	4.03	2.59	2.46	2.64	4.24	3.63	1.42	1.18	28.62										
	Q 0.0	0.025	0.038	0.192	0.127	0.128	0.047	0.0	0.073	0.303	0.036	0.037	1.006										
ANNUAL MAXIMUM DISCHARGE (in/hr) and MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge				1 Hour				2 Hours				Maximum Volume for Selected Time Interval				1 Day				2 Days			
Date	Date	Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	10-31	0.195	10-31	0.143	10-31	0.217	10-31	0.619	10-31	0.845	10-31	1.060	10-30	1.319	10-24	1.319							
	4-12	0.879	4-12	0.577	4-12	0.721	10-2	0.821	10-2	1.007	10-31	1.060	10-30	1.319	10-24	1.319							
	1967		1967			1971		1971		1972		1972		1972									
MAXIMUMS FOR PERIOD OF RECORD																							

NOTES: Watershed conditions: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years. Range condition class during 1971 was good, however, entire area was slightly overgrazed during the spring and summer. The vegetative cover in early December 1971, based on 25 clipped samples uniformly spaced, averaged 1,660 pounds of standing grass, 300 pounds of weeds, and 1,535 pounds of mulch per acre. Prior to Oct. 1970 this watershed was within the same pasture area as Watershed E-6, however, was subjected to a slightly heavier grazing rate. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1216, p. 69-42-1 maps - topography, 1966, p. 69-42-3 of foregoing reference; revised composite, 1965, USDA Misc. Pub. 1216, p. 69-7-21. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 195 and 196. Precipitation and runoff records began July 1, 1966. STA AV based on 7 yr (1966-72) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED R-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.01	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0													
2	0.0	0.04	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0													
3	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.26	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01													
6	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.07	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	1.13	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0													
10	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
11	0.0	0.39	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.13													
12	0.0	0.0	0.0	0.0	1.84	0.0	0.0	0.28	0.0	0.0	0.68	0.03													
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	1.22	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.16	0.72	0.0													
19	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.64	1.33	0.0	0.0	0.0	0.0	0.0	0.20	0.05	0.12													
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.20	3.56	0.16	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.09	0.0	0.0													
23	0.0	0.0	0.33	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.38	0.0	0.0	0.24	0.0													
25	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
26	0.05	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0													
27	0.03	0.0	0.0	0.99	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
29	0.0	0.0	0.0	0.08	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.41													
30	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.01	0.0	3.12	0.0	0.0													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.38	0.0	0.0	0.0													
TOTAL	0.09	0.60	0.57	4.68	3.06	0.77	1.09	1.69	1.59	9.58	2.37	0.70													
STA AV	0.72	1.13	1.60	3.01	4.03	2.59	2.46	2.64	4.24	3.63	1.42	1.18													

NOTES: Precipitation obtained from Thiessen weighted values from two gages, Nos. 195 and 196. STA AV based on 7 yr (1966-72) record period.

1972				MEAN DAILY DISCHARGE (cfs)				CHICKASAW, OKLAHOMA WATERSHED E-5													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec									
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.224	0.0									
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
11	0.0	0.0	0.0	0.0	0.0	0.051	0.0	0.0	0.0	0.0	0.0	0.0									
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
20	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
27	0.0	0.0	0.0	0.075	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.233	0.0	0.0	0.0									
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.858	0.0	0.0	0.0									
MEAN	0.0	0.0	0.0	0.0026	0.0016	0.0	0.0	0.0	0.0	0.0352	0.0075	0.0									
INCHES	0.0	0.0	0.0	0.077	0.051	0.0	0.0	0.0	0.0	1.094	0.225	0.0									
STA AV	0.0	0.025	0.038	0.192	0.127	0.128	0.047	0.0	0.073	0.303	0.036	0.037									

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.003442. STA AV based on 7 yr (1966-72) record period.

CHICKASHA, OKLAHOMA WATERSHED H-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., R. 6 W., about 8-1/2 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin.

AREA: 27.22 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED H-6																			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																				
1972	P 0.10	0.59	0.93	4.66	3.04	0.79	1.16	1.58	1.45	9.42	2.43	0.67	26.82																				
	Q 0.0	0.0	0.0	0.149	0.093	0.0	0.0	0.0	0.0	0.987	0.094	0.0	1.323																				
STA AV	P 0.72	1.15	1.59	2.96	4.09	2.57	2.46	2.63	4.26	3.55	1.43	1.17	28.57																				
	Q 0.0	0.015	0.026	0.213	0.159	0.081	0.036	0.009	0.088	0.286	0.019	0.020	0.952																				
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																																	
Maximum Discharge														Maximum Volume for Selected Time Interval																			
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days																	
Date		Date		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.							
1972		10-30		0.215		10-30		0.128		10-31		0.157		10-31		0.547		10-31		0.711		10-31		0.804		10-30		1.061		11- 4		1.061	
MAXIMUMS FOR PERIOD OF RECORD																																	
4-12		1.066		4-12		0.658		4-12		0.808		4-12		0.879		10- 2		0.979		10- 2		0.979		10-30		1.061		4-10		1.098			
1967		1967		1967		1967		1967		1967		1971		1971		1971		1971		1971		1972		1972		1967		1967		1967			

NOTES: Watershed conditions: 100% rangeland, native grass continuously grazed by beef cattle during recent years. Range condition class during the year was good to excellent, however, entire area was slightly overgrazed throughout the year. The vegetative cover in mid-Nov. 1971, based on 25 uniformly spaced clipped samples, averaged 2,500 pounds of standing grass, 200 pounds of weeds, and 2,700 pounds of mulch. This watershed was in the same pasture area as Watershed H-5, however, was subjected to a slightly lighter grazing rate. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.43-1 and 69.43-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 196 and 197. Precipitation and runoff records began July 1, 1966. STA AV based on 7 yr (1966-72) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1972													DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED H-6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 196 and 197. STA AV based on 7 yr (1966-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA WATERSEED E-6						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.104	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.106	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.127	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.294	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.616	0.0	0.0
MEAN	0.0	0.0	0.0	0.0057	0.0034	0.0	0.0	0.0	0.0	0.0364	0.0036	0.0
INCHES	0.0	0.0	0.0	0.149	0.093	0.0	0.0	0.0	0.0	0.967	0.094	0.0
STA AV	0.0	0.015	0.026	0.213	0.159	0.081	0.036	0.009	0.068	0.286	0.015	0.020

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.874418. STA AV based on 7 yr (1966-72) record period.

LOCATION: Grady County, Oklahoma; NW 1/4, sec. 13, T. 7 N., E. 6 W., about 8 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin.

AREA: 19.19 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												CHICKASHA, OKLAHOMA WATERSHED E-7											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
P	0.10	0.59	0.92	4.75	2.98	0.79	1.10	1.58	1.28	8.61	2.31	0.65	25.66										
1972 Q	0.0	0.0	0.000	1.274	0.635	0.0	0.0	0.0	0.000	3.137	0.456	0.0	5.502										
STA AV P	0.70	1.07	1.55	2.86	3.93	2.56	2.35	2.64	4.07	3.36	1.33	1.13	27.55										
Q	0.051	0.084	0.135	0.652	0.643	0.532	0.299	0.166	0.718	0.865	0.171	0.090	4.406										
ANNUAL MAXIMUM DISCHARGE (in/hr) and MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge												Maximum Volume for Selected Time Interval											
1 Hour				2 Hours				12 Hours				1 Day				2 Days				8 Days			
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	10-30	1.309	10-30	0.701	10-30	1.040	10-30	1.480	10-30	1.542	10-30	2.362	11-10	2.988	11-4	2.988							
MAXIMUMS FOR PERIOD OF RECORD																							
5-6	2.179	4-12	0.939	6-13	1.143	10-2	1.757	10-2	1.889	10-30	2.362	11-10	2.988	11-4	2.988								
1969	1967	1969	1971	1971	1971	1971	1972	1972	1972	1972	1972	1972	1972	1972	1972								

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935 when the land use was changed to pasture because of severe erosion. Range condition class during the year was poor to fair. The vegetative cover in mid-Nov. 1971 based on 25 uniformly spaced clipped samples, averaged 1,330 pounds of standing grass, 160 pounds of weeds, and 900 pounds per acre of mulch. Prior to Oct. 1970, this watershed was within the same pasture area as Watershed E-8, however, it was enclosed by separate fence in order to implement an improved management program. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69-44-1 and 65-44-1. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 193 and 194. Precipitation and runoff records began July 1, 1966. STA AV based on 7 yr (1966-72) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1972 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED E-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.01	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0													
2	0.0	0.05	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0													
3	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.26	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02													
6	0.0	0.6	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.06	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.85	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0													
10	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
11	0.0	0.39	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.10													
12	0.0	0.0	0.0	0.0	1.82	0.01	0.0	0.25	0.0	0.0	0.61	0.05													
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	1.22	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.12	0.73	0.0													
19	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.60	1.44	0.0	0.0	0.0	0.0	0.0	0.17	0.04	0.11													
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.17	3.22	0.16	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.08	0.0	0.0													
23	0.0	0.0	0.32	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.34	0.0	0.0	0.23	0.0													
25	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
26	0.05	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0													
27	0.04	0.0	0.0	0.97	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
29	0.0	0.0	0.0	0.06	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.37													
30	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.02	0.0	2.80	0.0	0.0													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.13	0.0	0.0													
TOTAL	0.10	0.59	0.92	4.75	2.98	0.79	1.10	1.58	1.28	8.61	2.31	0.65													
STA AV	0.70	1.07	1.55	2.86	3.93	2.56	2.35	2.64	4.07	3.36	1.33	1.13													

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 193 and 194. STA AV based on 7 yr (1966-72) record period.

1972		MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA WATERSHED R-7						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.211	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.512	0.0	0.0	0.0	0.0	0.0	0.054	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.102	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.353	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.292	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.039	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.496	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.036	0.0	0.0	0.0	0.0	0.0	1.243	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.554	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0342	0.0165	0.0	0.0	0.0	0.0	0.0816	0.0122	0.0	
INCHES	0.0	0.0	0.000	1.274	0.635	0.0	0.0	0.0	0.000	3.137	0.456	0.0	
STA AV	0.051	0.084	0.135	0.652	0.643	0.532	0.299	0.166	0.718	0.865	0.171	0.050	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.240315. STA AV based on 7 yr (1966-72) record period.

CHICKASHA, OKLAHOMA WATERSHED R-8

LOCATION: Grady County, Oklahoma; NW 1/4 sec. 13, T. 7 N., R. 6 W., about 8-1/2 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin.

AREA: 27.55 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED R-8																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																		
1972 P	0.11	0.61	0.50	4.58	2.87	0.74	1.22	1.46	1.14	8.64	2.30	0.64	25.21																		
Q	0.0	0.0	0.0	0.672	0.345	0.0	0.005	0.0	0.002	2.119	0.193	0.0	3.337																		
STA AV P	0.72	1.15	1.60	2.83	4.05	2.52	2.43	2.57	4.11	3.33	1.37	1.15	27.84																		
Q	0.013	0.040	0.058	0.369	0.434	0.326	0.191	0.074	0.471	0.593	0.068	0.056	2.693																		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
Maximum Discharge													Maximum Volume for Selected Time Interval																		
Date		Rate		1 Hour Date		Vol.		2 Hours Date		Vol.		6 Hours Date		Vol.		12 Hours Date		Vol.		1 Day Date		Vol.		2 Days Date		Vol.		8 Days Date		Vol.	
1972	10-30	0.819		10-30	0.444	10-30	0.655	10-30	0.928	10-31	0.998	10-30	1.680	10-30	2.065	11-4	2.065														
MAXIMUMS FOR PERIOD OF RECORD																															
5- 6		1.828		5- 6		0.724		10- 2		0.876		10- 2		1.380		10- 2		1.499		10-30		1.680		10-30		2.065		11- 4		2.065	
1969				1969				1971				1971				1971				1972				1972				1972			

NOTES: Watershed conditions: Formerly cultivated from about 1907, when land use was changed to pasture because of severe erosion. Range condition class during the year was poor to fair. The vegetative cover in mid-Nov. 1971, based on 25 uniformly spaced clipped samples, average 1,400 pounds of standing grass, 100 pounds of weeds, and 1,200 pounds per acre of mulch. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.45-1 and 69.45-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. Precipitation and runoff records began July 1, 1966. STA AV based on 7 yr (1966-72) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1972	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED R-8											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.02	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0												
2	0.0	0.04	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0												
3	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.26	0.0	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
6	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.07	0.0												
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.72	0.0	0.0	0.0	0.0												
9	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0												
10	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
11	0.0	0.42	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.13												
12	0.0	0.0	0.0	0.0	1.75	0.0	0.0	0.15	0.0	0.0	0.68	0.04												
13	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0												
14	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0												
15	0.0	0.0	0.0	1.17	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0												
18	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.13	0.74	0.0												
19	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
20	0.0	0.0	0.57	1.45	0.0	0.0	0.0	0.0	0.0	0.17	0.05	0.12												
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.16	3.24	0.17												
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.07	0.0	0.0												
23	0.0	0.0	0.33	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.36	0.0	0.0	0.22	0.0												
25	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
26	0.05	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0												
27	0.04	0.0	0.0	0.91	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0												
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
29	0.0	0.0	0.0	0.06	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.33												
30	0.0	0.0	0.38	0.38	0.0	0.0	0.0	0.01	0.62	0.0	0.0	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.12	0.0	0.0												
SCAL	0.11	0.61	0.90	4.58	2.87	0.74	1.22	1.46	1.14	8.64	2.30	0.64												
STA AV	0.72	1.15	1.60	2.83	4.05	2.52	2.43	2.57	4.11	3.33	1.37	1.15												

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. STA AV based on 7 yr (1966-72) record period.

1972		BRAN DAILY DISCHARGE (cfs)					CHICFASBA, OFLABCA WATERSHED F-6						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.116	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.048	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.091	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.059	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.297	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.157	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.368	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.022	0.0	0.0	0.0	0.0	0.0	1.105	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.169	0.0	0.0	
BRAN	0.0	0.0	0.0	0.0259	0.0129	0.0	0.0002	0.0	0.0001	0.0791	0.0075	0.0	
INCHES	0.0	0.0	0.0	0.672	0.345	0.0	0.005	0.0	0.002	2.119	0.193	0.0	
STA AV	0.013	0.040	0.058	0.369	0.434	0.326	0.191	0.074	0.471	0.593	0.068	0.056	

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.863994. STA AV based on 7 yr (1966-72) record period.

SONORA, TEXAS WATERSHED W-14

LOCATION: Sutton County, Texas; gaging station on Water Street at Sonora city limit; Lowery Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 30720.00 acres 48.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													SONORA, TEXAS WATERSHED W-14			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1972 P	0.36	0.17	0.47	1.09	3.89	1.44	1.19	9.62	2.00	3.87	0.33	0.0	24.43			
Q	0.0	0.0	0.0	0.0	0.001	0.0	0.0	1.034	0.0	0.003	0.0	0.0	1.038			
STA AV P	0.65	1.22	0.82	2.51	2.95	1.65	1.64	2.83	3.59	2.23	1.26	0.69	22.06			
Q	0.0	0.0	0.0	0.0	0.011	0.0	0.002	0.094	0.076	0.007	0.0	0.0	0.190			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge		Maximum Volume for Selected Time Interval														
1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days				
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1972	8-12	0.135	8-12	0.127	8-12	0.248	8-12	0.563	8-12	0.687	8-12	0.787	8-12	0.914	8-9	1.030
MAXIMUMS FOR PERIOD OF RECORD																
8-12		0.135	8-12	0.127	8-12	0.248	8-12	0.563	8-12	0.687	8-12	0.787	8-12	0.914	8-9	1.030
1972		1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972

NOTES: Watershed conditions: 0.43 caliche and paved roads; 0.3% urban area; 0.3% cropland; 99.0% rangeland. Cropland seeded to oats in fall for winter grazing. Rangeland moderately to severely overgrazed during the year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70, 7-7. Precipitation data by Thiessen method using rain gauges 1, 1-A, 2, 3A, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see National Weather Service records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1972 DAILY AIR TEMPERATURE (degrees F)															SONORA, TEXAS WATERSHED W-14	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	68 46	68 29	63 47	58 19	46 10	61 22	63 29	63 43	65 52	71 45	69 36	72 35				
2	71 37	57 25	47 31	49 18	51 38	71 51	73 42	73 40	73 39	75 39	80 43	80 44				
3	75 37	68 43	67 51	51 39	60 39	49 33	38 29	62 27	59 42	48 17	51 21	53 37				
4	71 45	70 23	62 26	62 33	61 43	52 32	67 28	70 33	75 47	73 32	70 31	72 39				
5	71 36	70 37	72 51	80 51	79 45	73 56	87 45	85 48	82 39	74 37	79 43	81 55				
6	81 59	78 31	76 43	76 47	71 40	72 46	85 58	85 43	71 42	71 45	74 52	74 60				
7	78 59	80 55	80 57	79 40	81 46	79 47	77 53	79 52	78 56	77 56	77 56	87 57				
8	84 45	83 60	87 58	86 50	77 39	60 43	67 30	74 36	80 49	86 53	75 45	79 52				
9	87 64	90 62	88 54	85 54	80 64	87 67	91 67	97 70	97 68	90 52	85 41	87 55				
10	89 61	89 65	85 65	84 52	79 43	89 47	89 53	84 59	80 63	75 54	73 57	83 61				
11	83 66	84 63	84 53	81 49	80 58	80 61	73 58	75 58	79 55	81 63	79 59	73 58				
12	81 61	83 57	81 55	78 57	80 59	81 51	81 56	80 58	80 57	80 60	80 62	89 63				
13	89 63	88 64	86 63	85 58	85 60	86 66	87 62	72 60	80 58	84 57	85 63	85 63				
14	87 57	87 59	86 58	84 66	86 65	87 65	87 62	83 65	84 68	93 70	94 62	88 68				
15	85 67	85 66	94 65	100 67	101 66	100 70	98 70	99 72	101 73	100 74	99 73	99 74				
16	99 70	95 69	93 71	93 70	93 72	92 67	82 67	84 66	85 65	90 66	91 72	92 98				
17	92 67	93 67	92 67	91 65	91 68	91 67	91 67	85 68	87 69	88 67	88 65	87 64				
18	86 63	90 70	90 64	91 69	91 71	92 72	96 67	98 63	102 67	102 67	99 66	88 65				
19	77 61	85 66	90 67	90 63	88 70	73 63	77 64	76 63	76 63	82 68	86 67	86 67				
20	86 63	83 61	85 64	85 67	84 65	87 66	91 66	89 66	87 64	87 71	88 67	87 67				
21	90 65	89 64	89 68	89 65	89 66	85 68	84 67	90 67	89 66	89 69	89 68	90 66				
22	90 67	88 65	89 66	89 65	87 66	88 65	88 61	85 65	87 68	88 68	88 60	89 70				
23	88 61	71 55	70 59	81 63	86 64	86 65	83 63	83 67	88 68	88 45	87 47	79 50				
24	79 53	80 55	81 56	80 60	86 53	85 57	87 64	86 65	83 63	85 85	83 58	88 61				
25	87 57	85 56	90 57	89 61	89 43	61 46	74 55	76 54	73 47	64 87	67 56	61 47				
26	72 42	72 57	73 61	74 67	73 45	65 43	72 40	73 43	73 43	74 45	76 63	75 42				
27	70 43	72 52	71 37	70 43	78 58	74 46	68 29	52 50	8 53	22 61	38 66	38 61				
28	71 31	61 38	70 22	74 27	67 27	65 30	64 28	63 23	63 43	78 57	70 37	65 23				
29	66 32	71 37	77 39	76 30	76 44	75 17	43 27	73 33	70 44	58 23	31 22	52 26				
30	57 22		44 26	49 14	52 23	60 34	65 40	70 38	61 48	67 30	71 37	68 31				
31	66 34		62 30		76 54		63 30	66 30	66 30	66 30	66 30	66 30				
AV.	80 53	78 52	78 53	78 51	78 52	77 52	77 51	79 52	79 54	79 52	78 52	79 54				
STAN	66.4	65.1	65.5	64.5	65.1	64.4	63.9	65.6	66.6	65.4	65.2	66.4				
STA AV	62 35	63 37	71 43	79 53	82 58	86 64	91 65	91 66	84 61	78 53	70 44	63 38				

NOTES: Temperature data taken daily with maximum and minimum thermometers. Readings were taken at 1630 of the day shown. STA AV based on 9 yr record period.

1972	DAILY PRECIPITATION (inches)					SONGBA, TEXAS WATERSHED W-14							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.01E	0.0	0.0	0.0
3	0.16E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4E	1.4E	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.33	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22E	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.08	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.35E	0.0	0.0	0.56	0.0	0.0	0.0	0.0
11	0.0	0.0	0.16E	0.0	0.0	0.01E	0.09E	0.0	0.78	0.00E	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	3.7E	0.0	0.0	0.04E	0.0
13	0.0	0.0	0.0	0.0	0.34E	0.0	0.17E	0.35E	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.14E	0.02	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.002E	0.0	0.41	0.0	0.0	1.03	0.0	0.0	0.10E	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.08E	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.0	0.31E	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.48E	0.0	0.0	0.0	0.0	0.08E	0.0
19	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.29	0.67	0.0	0.0	0.0	0.19E	0.0	0.0	0.15E	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.72	3.0E	0.07E	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.14E	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36E	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.10E	0.0	0.0	0.0	0.0	0.27E	0.0	0.08E	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.14E	0.0	0.0
TOTAL	0.36	0.17	0.47	1.05	3.89	1.44	1.15	9.62	2.00	3.87	0.33	0.0	0.0
STA AV	0.65	1.22	0.82	2.51	2.95	1.65	1.64	2.83	3.55	2.23	1.26	0.65	0.65

NOTES: Precipitation values are Thiessen weighted average of rain gages 1, 1-A, 2, 3A, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. Records began May 1961; part-year amounts not included in averages. STA AV based on 11 yr period. Estimate codes may indicate that non-significant event totals are included.

1972	MEAN DAILY DISCHARGE (cfs)					SONGBA, TEXAS WATERSHED W-14							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.35	0.0	0.0	1.57	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.12	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	903.69	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	216.65	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.69	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.70	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.04	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.11	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.43	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.95	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.033	0.0	0.0	43.056	0.0	0.126	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.001	0.0	0.0	1.034	0.0	0.003	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.011	0.0	0.002	0.094	0.076	0.007	0.0	0.0	

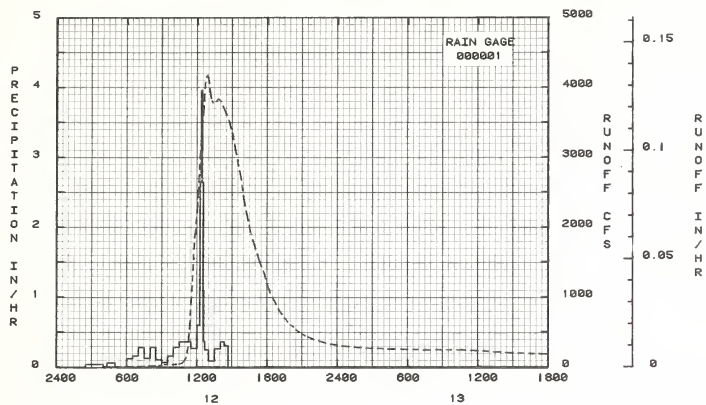
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000775. Records began May 1961; part-year amounts not included in averages. STA AV based on 11 yr period.

1972 SELECTED RUMOFF EVENT				SCORRA, TEXAS WATERSHED W-14			
ANTECEDENT CONDITIONS		RAINFALL		RUMOFF		WATERSEED	
Date	Rainfall	Rumoff	Date	Time	Intensity	Acc.	Date
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day
							Time
							Rate
							(cfs)
							Acc.
							(inches)
EVENT OF AUGUST 11 - 14, 1972							
EG 000001		EG 000001					
8-11	0.65		8-11	2400	0.0	0.0	8-12
8-12		0.000	8-12	230	0.0	0.0	430
				300	0.0400	0.02	1.460
				400	0.0400	0.06	1.500
				420	0.0	0.06	515
							2.670
							3.590
							0.0
							4.090
							0.0001
WATERSHED CONDITIONS:							
99% rangeland, moderately				440	0.0600	0.08	630
to severely overgrazed; 4%				500	0.0600	0.10	700
caliche and paved roads;				600	0.0	0.10	730
3% urban area; 3% cropland				630	0.1200	0.16	11.670
mainly oats planted in fall				700	0.1600	0.24	18.890
for winter grazing.							0.0007
							0.0010
				730	0.2800	0.38	20.930
				800	0.1200	0.44	27.360
				830	0.2800	0.58	33.030
				900	0.1000	0.63	35.590
				930	0.0600	0.66	35.590
							0.0025
				1000	0.1600	0.74	38.260
				1030	0.2800	0.88	44.160
				1100	0.3600	1.06	54.630
				1130	0.3600	1.24	70.270
				1200	0.2600	1.37	89.400
							0.0039
				1210	0.6000	1.47	111.220
				1215	0.6000	1.52	134.650
				1220	2.6400	1.74	211.680
				1225	3.9600	2.07	279.979
				1230	2.6400	2.29	465.910
							0.0067
				1235	1.0800	2.38	669.958
				1240	0.3600	2.41	928.479
				1300	0.2400	2.49	1158.329
				1330	0.0800	2.53	1464.878
				1400	0.2600	2.66	1768.479
							0.0212
				1420	0.3600	2.78	1901.830
				1430	0.3000	2.83	2059.828
				1440	0.3000	2.88	2274.416
							2496.567
							2753.296
							0.0506
				1215			3019.407
				1220			3242.677
				1225			3452.949
				1230			3665.528
				1235			3834.346
							0.0956
				1240			4076.488
				1245			4151.449
				1250			4178.973
				1255			4142.297
				1300			4056.229
							0.1509
				1305			3929.790
				1310			3836.637
				1315			3802.228
				1320			3776.697
				1335			3800.097
							0.2230
				1340			3817.187
				1345			3832.197
				1400			3797.968
				1415			3698.808
				1430			3595.588
							0.3342
				1445			3484.699
				1500			3322.469
				1515			3107.587
				1530			2874.527
				1545			2668.239
							0.4627
				1600			2373.146
				1615			2159.600
				1630			1961.067
				1645			1808.908
				1659			1681.698
							0.5461
				1715			1548.500
				1730			1433.398
				1745			1326.698
				1800			1162.638
				1815			1057.590
							0.6023

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000032.

1972			SELECTED RUNOFF EVENT			SONORA, TEXAS WATERSEED W-14				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 11 - 14, 1972 (CONTINUED)										
8-12							1830		970.168	0.6105
							1845		891.658	0.6180
							1900		810.500	0.6249
							1915		750.360	0.6312
							1930		656.438	0.6370
							1945		645.320	0.6424
							2000		599.040	0.6474
							2015		566.398	0.6521
							2030		522.710	0.6565
							2045		493.510	0.6606
							2100		467.260	0.6645
							2115		439.810	0.6682
							2130		420.168	0.6717
							2200		389.438	0.6782
							2230		360.638	0.6843
8-13							2300		338.378	0.6899
							2330		320.888	0.6952
							2400		305.370	0.7003
							100		295.760	0.7098
							200		269.229	0.7188
							300		262.418	0.7274
							430		252.110	0.7399
							600		247.360	0.7520
							730		241.790	0.7638
							1030		241.790	0.7872
							1200		226.970	0.7985
							1330		207.700	0.8050
							1500		194.280	0.8187
							1800		178.300	0.8367
							2100		159.600	0.8531
8-14							2400		149.130	0.8681
							600		144.270	0.8965
							900		139.920	0.9103
							1030		131.270	0.9169
							1200		122.400	0.9230
							1330		109.280	0.9286
							1500		98.700	0.9336
							1630		83.760	0.9380
							1800		68.130	0.9417
							1930		64.110	0.9449
							2100		61.590	0.9479
							2400		60.110	0.9538

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000032.



EVENT OF AUGUST 11 - 14, 1972
SCHORA, TEXAS WATERSHED N-14

SONORA, TEXAS WATERSHED S-9

LOCATION: Sutton County, Texas; gaging station on Water Street at Sonora city limit; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 1774.00 acres 2.77 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													SONORA, TEXAS WATERSHED S-9																				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																				
1972	P 0.32	0.14	0.35	1.09	3.70	1.22	1.51	8.68	1.59	4.30	0.31	0.0	23.21																				
	Q 0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.206	0.0	0.014	0.0	0.0	0.221																				
STA AV	P 0.65	1.21	0.85	2.35	2.85	1.77	1.66	2.64	3.81	2.27	1.11	0.72	21.90																				
	Q 0.0	0.0	0.001	0.002	0.006	0.015	0.001	0.035	0.245	0.005	0.0	0.004	0.314																				
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																																	
Maximum Discharge													Maximum Volume for Selected Time Interval																				
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days																	
Date		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.					
1972		8-12		0.118		8-12		0.070		8-12		0.112		8-12		0.184		8-12		0.202		8-11		0.205		8-10		0.205		8-9		0.206	
MAXIMUMS FOR PERIOD OF RECORD																																	
		9-23		1.190		9-23		0.570		9-23		0.800		9-23		1.040		9-23		1.070		9-23		1.270		9-22		1.450		9-19		2.680	
		1964				1964				1964				1964				1964				1964				1964				1964			

NOTES: Watershed conditions: 0.34 caliche roads; 95.7% rangeland. Rangeland fair condition to moderately overgrazed during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.2-5. Precipitation data by Thiessen method using rain gages 1 and T-A. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see National Weather Service records at Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1972 DAILY PRECIPITATION (inches)													SONORA, TEXAS WATERSHED S-9												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
3	0.15E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	1.28	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	0.0													
6	0.0	0.0	0.0	0.0	0.0	2.15	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.59	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.0	0.25E	0.0	0.0	1.48	0.0	0.0	0.0	0.0													
11	0.0	0.14E	0.0	0.0	0.0	0.19E	0.0	0.67	0.03E	0.0	0.0	0.0													
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.99	0.0	0.0	0.0	0.05E													
13	0.0	0.0	0.0	0.0	0.35	0.0	0.08E	0.35	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.14E	0.13	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	0.0	0.47	0.0	0.81	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.0	0.09E	0.25E	0.0	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.09E													
19	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.27	0.62	0.0	0.0	0.44	0.0	0.0	0.06E	0.0	0.0													
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40	3.42	0.07E	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0													
23	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.10E	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
29	0.10E	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	0.16E	0.0	0.0	0.0													
TOTAL	0.32	1.21	0.35	1.09	3.70	1.22	1.51	8.68	1.59	4.30	0.31	0.0													
STA AV	0.65	1.21	0.85	2.35	2.85	1.77	1.66	2.64	3.81	2.27	1.11	0.72													

NOTES: For daily air temperature, in the vicinity, see table for Watershed W-14 (70.001). Precipitation values are Thiessen weighted average of rain gages 1 and T-A. Records began May 1961; part-year amounts not included in averages. STA AV based on 11 yr record period. Estimate codes may indicate that non-significant event totals are included.

1972	MEAN DAILY DISCHARGE (cfs)					SONORA, TEXAS WATERSHED S-9						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.099	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.081	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.273	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.043	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0	0.0	0.0	0.0	0.0032	0.0	0.0	0.4957	0.0	0.0336	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.206	0.0	0.014	0.0	0.0
STA AV	0.0	0.0	0.001	0.002	0.006	0.015	0.001	0.035	0.245	0.005	0.0	0.004

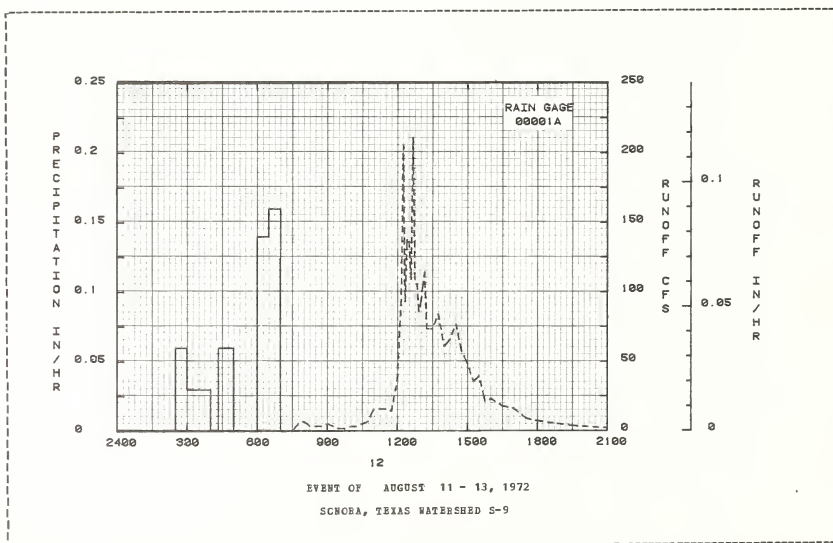
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.013417. Records began May 1961; part-year amounts not included in averages. STA AV based on 11 yr record period.

1972	SELECTED RUNOFF EVENT					SONORA, TEXAS WATERSHED S-9						
ANTECEDENT CONDITIONS					RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 11 - 13, 1972												
RG 00001A												
8-11	0.69		8-11	2400	0.0	0.0	8-12	30	0.0	0.0		
8-12		0.0	8-12	230	0.0	0.0		100	0.0	0.0		
				300	0.0600	0.03		130	0.0	0.0		
				400	0.0300	0.06		200	0.0	0.0		
				420	0.0	0.06		300	0.0	0.0		
WATERSHED CONDITIONS:												
0.3% caliche roads; 99.7% rangeland. Rangeland fair condition to moderately overgrazed during a year depending on climatic conditions and stocking rates.												
				440	0.0600	0.08		730	0.0	0.0		
				500	0.0600	0.10		745	5.366	0.0007		
				600	0.0	0.10		800	7.155	0.0017		
				630	0.1400	0.17		815	3.578	0.0022		
				700	0.1600	0.25		830	3.578	0.0027		
								845	3.578	0.0032		
								900	5.366	0.0039		
								915	3.578	0.0044		
								930	1.789	0.0047		
								945	1.789	0.0050		
								1000	3.578	0.0055		
								1015	3.578	0.0060		
								1030	5.366	0.0067		
								1045	7.155	0.0077		
								1100	16.099	0.0099		
								1115	16.099	0.0121		
								1130	16.099	0.0143		
								1145	14.310	0.0163		
								1200	37.564	0.0215		
								1205	67.974	0.0246		
								1210	94.806	0.0289		
								1215	205.710	0.0388		
								1220	93.017	0.0431		
								1225	137.736	0.0494		
								1230	135.947	0.0559		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000555.

1972	SELECTED RUNOFF EVENT						SCHORA, TEXAS WATERSHED S-9					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 11 - 13, 1972 (CONTINUED)												
							8-12	1235	109.116	0.0609		
								1240	211.076	0.0706		
								1245	109.116	0.0758		
								1250	105.538	0.0806		
								1255	85.862	0.0845		
								1300	93.017	0.0890		
								1305	103.749	0.0938		
								1310	114.482	0.0990		
								1315	73.340	0.1025		
								1330	73.340	0.1127		
								1345	84.073	0.1245		
								1400	60.819	0.1330		
								1415	66.185	0.1422		
								1430	76.918	0.1530		
								1445	57.241	0.1610		
								1500	48.297	0.1677		
								1515	35.776	0.1727		
								1530	39.353	0.1782		
								1545	21.465	0.1812		
								1600	23.254	0.1844		
								1630	17.888	0.1894		
								1700	16.099	0.1939		
								1730	8.944	0.1964		
								1800	7.155	0.1984		
								1930	3.578	0.2014		
								2100	1.789	0.2029		
								2230	1.789	0.2044		
								2400	0.0	0.2044		
							8-13	300	0.0	0.2044		
								600	0.0	0.2044		
								1200	0.0	0.2044		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.



SONORA, TEXAS WATERSHED S-10

LOCATION: Sutton County, Texas; gaging station on flood detention reservoir, 6 mi. NE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 5392.00 acres 8.42 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED S-10																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																		
1972	P 0.30	0.12	0.38	0.93	4.01	1.44	1.40	8.82	2.04	3.74	0.30	0.0	23.48																		
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.684	0.0	0.011	0.0	0.0	0.695																		
STA AV	P 0.65	1.21	0.82	2.38	2.90	1.84	1.48	2.68	3.64	2.05	1.22	0.69	21.56																		
	Q 0.0	0.0	0.0	0.0	0.023	0.011	0.003	0.110	0.175	0.011	0.0	0.005	0.337																		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
Maximum Discharge														Maximum Volume for Selected Time Interval																	
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days															
Date		Date		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.					
1972	8-12	0.279	8-12	0.192	8-12	0.358	8-12	0.622	8-12	0.676	8-12	0.681	8-11	0.681	8-9	0.684															
MAXIMUMS FOR PERIOD OF RECORD																															
9-23		0.810		9-23		0.720		9-23		0.950		9-23		1.110		9-23		1.150		9-23		1.230		9-23		1.520		9-19		1.930	
1964				1964				1964				1964				1964				1964				1964				1964			

NOTES: Watershed conditions: Caliche roads - 0.4%; rangeland - 95.6%. Range condition poor to fair, with moderate to severe overgrazing during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.3-6. Thiessen weighted rainfall using rain gages 1, 1-A, 2, 4, 5, 6, and 7. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-term precipitation records, see National Weather Service records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1972 DAILY PRECIPITATION (inches)													SONORA, TEXAS WATERSHED S-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.0	0.20E	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
3	0.15S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	1.45	0.0	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59E	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	0.0	2.85	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008E	0.0	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.66	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.0	0.14E	0.0	0.0	0.55	0.0	0.0	0.0	0.0													
11	0.0	0.06E	0.0	0.0	0.0	0.16E	0.0	0.71	0.00E	0.0	0.0	0.0													
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.51	0.0	0.0	0.0	0.01E													
13	0.0	0.0	0.0	0.0	0.23E	0.0	0.19E	0.47	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.15E	0.08	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.0	0.06E	0.0	0.34	0.0	0.92	0.0	0.0	0.05E	0.0	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.0	0.28E	0.0	0.37E	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.56E	0.0	0.0	0.0	0.008E	0.0													
19	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.23	0.59	0.0	0.0	0.33	0.0	0.0	0.07E	0.0	0.0													
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.39	3.10	0.07E	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
23	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.13E	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
29	0.08E	0.0	0.0	0.0	0.21E	0.0	0.02E	0.0	0.0	0.0	0.0	0.0													
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
31	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.14E	0.0	0.0	0.0													
TOTAL	0.30	0.12	0.38	0.93	4.01	1.44	1.40	8.82	2.04	3.74	0.30	0.0													
STA AV	0.65	1.21	0.82	2.38	2.90	1.84	1.48	2.68	3.64	2.05	1.22	0.69													

NOTES: For daily air temperatures, in the vicinity, see table for Watershed N-14, p. 70.001-1. Precipitation values are Thiessen weighted average of rain gages 1, 1-A, 2, 4, 5, 6, and 7. Records began May 1961; part-year amounts not included in averages. STA AV based on 11 yr record period. Estimate codes may indicate that non-significant event totals are included.

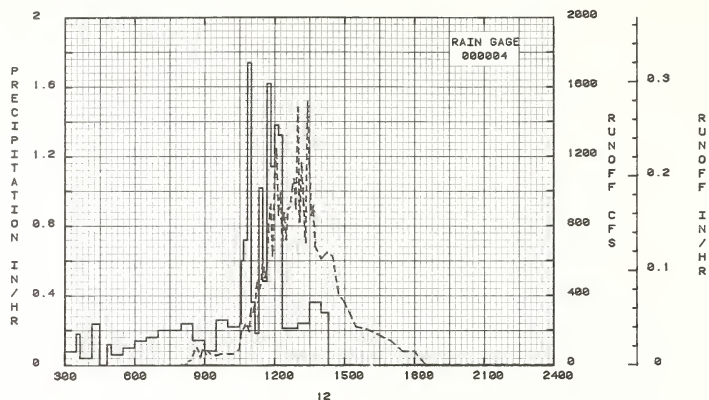
1972 MEAN DAILY DISCHARGE (cfs)													SONORA, TEXAS WATERSHED S-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	153.23	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9982	0.0	0.0804	0.0	MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.684	0.0	0.011	0.0	INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIA AV	0.0	0.0	0.0	0.0	0.0	0.023	0.011	0.003	0.110	0.175	0.011	0.0	SIA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005

NOTES: To convert mean daily discharge in CFS to I/R/DAY, multiply by 0.004318. Records began May 1961; part-year amounts not included in averages. SIA AV based on 11 yr period.

1972 SELECTED RUNOFF EVENT													SONORA, TEXAS WATERSHED S-10												
AMTICEDMENT CONDITIONS						RAINFALL						RUNOFF													
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		Date	Time	Rate	Acc.										
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(cfs)	(inches)										
EVENT OF AUGUST 12, 1972																									
RG 000004						RG 000004																			
8-12	0.67	0.0	8-12	300	0.0	0.0	8-12	800	0.0	0.0		8-12	800	0.0	0.0										
				330	0.0000	0.04		805	0.0	0.0			805	0.0	0.0										
				340	0.1800	0.07		810	0.0	0.0			810	0.0	0.0										
				410	0.0400	0.09		815	5.37	0.0001			815	5.37	0.0001										
				420	0.2400	0.13		820	21.748	0.0004			820	21.748	0.0004										
WATERSHED CONDITIONS:						WATERSHED CONDITIONS:																			
Caliche roads - 0.8%; range-						Caliche roads - 0.8%; range-																			
land - 99.6%. Range						land - 99.6%. Range																			
condition poor to fair, with						condition poor to fair, with																			
moderate to severe over						moderate to severe over																			
grazing during a year de-						grazing during a year de-																			
pending on climatic						pending on climatic																			
conditions and stocking						conditions and stocking																			
rates.						rates.																			
				430	0.2400	0.17		825	27.185	0.0008			825	27.185	0.0008										
				450	0.0	0.17		830	54.369	0.0017			830	54.369	0.0017										
				500	0.1200	0.19		835	81.554	0.0029			835	81.554	0.0029										
				530	0.0600	0.22		840	97.865	0.0044			840	97.865	0.0044										
				600	0.1000	0.27		845	76.117	0.0056			845	76.117	0.0056										
				630	0.1400	0.34		850	83.495	0.0063			850	83.495	0.0063										
				700	0.1600	0.42		855	86.991	0.0076			855	86.991	0.0076										
				730	0.2000	0.52		900	81.554	0.0089			900	81.554	0.0089										
				800	0.2000	0.62		905	59.806	0.0098			905	59.806	0.0098										
				830	0.2400	0.74		910	76.117	0.0109			910	76.117	0.0109										
				900	0.1400	0.81		915	65.243	0.0119			915	65.243	0.0119										
				930	0.0900	0.85		930	54.369	0.0104			930	54.369	0.0104										
				1000	0.2600	0.98		945	65.243	0.0174			945	65.243	0.0174										
				1030	0.2200	1.05		1000	65.243	0.0204			1000	65.243	0.0204										
				1035	0.2400	1.11		1015	65.243	0.0234			1015	65.243	0.0234										
				1040	0.6000	1.16		1030	92.428	0.0277			1030	92.428	0.0277										
				1050	0.7200	1.28		1035	156.700	0.0307			1035	156.700	0.0307										
				1050	1.7400	1.57		1040	206.603	0.0338			1040	206.603	0.0338										
				1110	0.3600	1.63		1045	233.788	0.0375			1045	233.788	0.0375										
				1120	0.1800	1.66		1050	222.914	0.0409			1050	222.914	0.0409										
				1130	1.0200	1.83		1055	190.293	0.0438			1055	190.293	0.0438										
				1140	0.4800	1.91		1100	326.216	0.0490			1100	326.216	0.0490										
				1150	1.6200	2.18		1105	304.468	0.0536			1105	304.468	0.0536										
				1200	1.1400	2.37		1110	353.400	0.0589			1110	353.400	0.0589										
				1210	1.3800	2.60		1115	473.012	0.0664			1115	473.012	0.0664										

1972 SELECTED RUNOFF EVENT				SONORA, TEXAS WATERSEED S-10							
ANTICEDENT CONDITIONS				RAINFALL				RUNCFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 12, 1972 (CONTINUED)											
8-12	1220	1.3200	2.82	8-12	1120	429.516	0.0729				
	1240	0.2100	2.89		1125	462.138	0.0799				
	1300	0.2100	2.96		1130	615.810	0.0897				
	1330	0.2400	3.08		1135	500.197	0.0972				
	1400	0.3600	3.26		1140	554.566	0.1056				
	1420	0.3000	3.36		1145	810.103	0.1184				
					1150	924.279	0.1323				
					1155	625.247	0.1417				
					1200	1081.948	0.1588				
					1205	1245.058	0.1776				
					1210	859.034	0.1906				
					1215	989.521	0.2062				
					1220	685.052	0.2165				
					1225	875.385	0.2297				
					1230	717.675	0.2410				
					1235	902.530	0.2546				
					1240	907.968	0.2683				
					1245	1011.270	0.2843				
					1250	1071.075	0.3005				
					1255	857.094	0.3140				
					1300	1484.282	0.3375				
					1305	820.977	0.3499				
					1310	1163.502	0.3675				
					1315	913.404	0.3819				
					1320	701.363	0.3925				
					1325	1516.904	0.4154				
					1330	1130.882	0.4333				
					1335	859.034	0.4463				
					1340	913.404	0.4601				
					1345	675.616	0.4708				
					1400	608.936	0.4988				
					1415	646.995	0.5285				
					1430	625.247	0.5572				
					1445	407.769	0.5759				
					1500	358.836	0.5924				
					1515	293.594	0.6059				
					1530	217.477	0.6159				
					1600	201.167	0.6344				
					1630	168.585	0.6499				
					1700	135.923	0.6624				
					1730	76.117	0.6694				
					1800	76.117	0.6764				
					1830	0.0	0.6764				
					1900	0.0	0.6764				
					1930	0.0	0.6764				
					2000	0.0	0.6764				
					2030	0.0	0.6764				
					2100	0.0	0.6764				
					2130	0.0	0.6764				
					2200	0.0	0.6764				
					2230	0.0	0.6764				
					2300	0.0	0.6764				
					2330	0.0	0.6764				
					2400	0.0	0.6764				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000184.



EVENT OF AUGUST 12, 1972
SONORA, TEXAS WATERSHED S-10

LOCATION: Sutton County, Texas; gaging station on flood detention reservoir, 4 mi. NE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 10787.00 acres 16.85 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										SONORA, TEXAS WATERSHED 5-11							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1972	P	0.42	0.16	0.52	1.10	3.93	1.52	1.30	9.46	1.95	3.63	0.35	0.0	28.33			
	Q	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.940	0.0	0.006	0.0	0.0	0.418			
STA AV	P	0.67	1.21	0.80	2.55	3.13	1.88	1.73	2.68	3.56	1.95	1.23	0.69	22.01			
	Q	0.0	0.0	0.0	0.018	0.089	0.008	0.004	0.125	0.124	0.042	0.001	0.007	0.418			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge				Maximum Volume for Selected Time Interval											
		Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1972		8-12	0.446	8-12	0.287	8-12	0.506	8-12	0.869	8-12	0.929	8-11	0.925	8-11	0.936	8-9	0.940
MAXIMUMS FOR PERIOD OF RECORD																	
		8-12	0.446	9-23	0.310	9-23	0.550	8-12	0.865	8-12	0.929	8-11	0.929	8-11	0.936	9-19	1.250
1972				1964		1964		1972		1972		1972		1972		1964	

NOTES: Watershed conditions: Caliche roads - 0-4%; rangeland - 59-64. Range condition poor to fair; moderately to severely overgrazed during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70-4-8. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see National Weather Service records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1972		DAILY PRECIPITATION (inches)					SONORA, TEXAS WATERSHED 5-11						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.19S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.49	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	2.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.23	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.25E	0.0	0.0	0.62	0.0	0.0	0.0	0.0	
11	0.0	0.14E	0.0	0.0	0.02E	0.06E	0.0	0.72	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	3.47	0.0	0.0	0.05E	0.0	
13	0.0	0.0	0.0	0.0	0.26E	0.0	0.17E	0.32E	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.16E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.02E	0.0	0.39	0.0	1.04	0.0	0.0	0.21E	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.10	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.42E	0.0	0.36E	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.57E	0.0	0.0	0.0	0.07E	0.0	
19	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.33	0.71	0.0	0.0	0.17E	0.0	0.0	0.06E	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.64	2.95	0.67E	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.16E	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.11E	0.0	0.0	0.0	0.26E	0.0	0.17E	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.12E	0.0	0.0	
TOTAL	0.42	0.16	0.52	1.10	3.53	1.52	1.30	5.46	1.95	3.63	0.35	0.0	
STA AV	0.67	1.21	0.80	2.55	3.13	1.80	1.73	2.68	3.96	1.95	1.23	0.69	

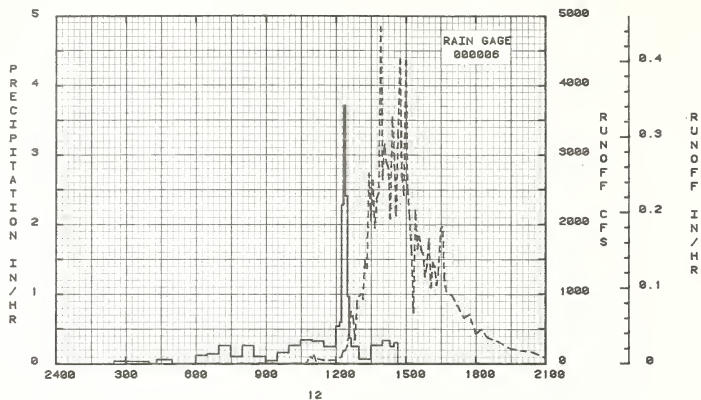
NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70.001-1. Precipitation values are Thiessen weighted average of 13 gauges 5, 6, 7, 8, 9, 10, and 11. Records began 1 day 1961; part-year amounts not included in averages. STA AV based on 11 yr record. Estimate codes may indicate that non-significant event totals are included.

1972	HEAR DAILY DISCHARGE (cfs)					SONORA, TEXAS WATERSHED S-11							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	1.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.93	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	420.87	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.17	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.95	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.060	0.0	0.0	13.741	0.0	0.095	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0004	0.0	0.0	0.940	0.0	0.006	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0018	0.008	0.008	0.004	0.125	0.124	0.042	0.001	0.007	

1972 SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED 5-11					
ANTICIPATED CONDITIONS			RAINFALL			RUSCFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 11 - 12, 1972											
RG 0000006			RG 0000006								
8-11	0.60		8-11	2400	0.0	0.0	8-12	600	0.0	0.0	
8-12		0.0	8-12	2300	0.0	0.0		900	0.0	0.0	
				300	0.0400	0.02		1030	0.0	0.0	
				400	0.0300	0.05		1045	10.677	0.0003	
				420	0.0	0.05		1050	54.384	0.0007	
WATERSHED CONDITIONS: Caliche roads - 0.45; rangeland - 99.6%. Range condition poor to fair; moderately to severely overgrazed during a year depending on climatic conditions and stocking rates.			440	0.0600	0.07		1055	97.892	0.0014		
			500	0.0600	0.09		1100	76.138	0.0020		
			600	0.0	0.09		1105	119.646	0.0029		
			630	0.1200	0.15		1110	312.631	0.0031		
			700	0.1400	0.22		1115	65.261	0.0036		
			730	0.2600	0.35		1130	43.508	0.0046		
			800	0.1000	0.40		1145	43.508	0.0056		
			830	0.2600	0.53		1200	43.508	0.0066		
			900	0.1000	0.58		1215	97.892	0.0088		
			930	0.0400	0.60		1220	174.030	0.0101		
			1000	0.1600	0.68		1225	184.907	0.0115		
			1030	0.2600	0.81		1230	261.044	0.0136		
			1100	0.3400	0.98		1235	445.951	0.0170		
			1130	0.3200	1.14		1240	750.504	0.0227		
			1200	0.2400	1.26		1245	681.736	0.0278		
			1210	0.5400	1.35		1250	337.184	0.0303		
			1215	0.6000	1.40		1255	902.781	0.0371		
			1220	2.2800	1.59		1300	966.042	0.0447		
			1225	3.7200	1.90		1305	1060.673	0.0522		
			1230	2.3999	2.10		1310	924.534	0.0592		
			1235	0.9600	2.18		1315	1479.256	0.0709		
			1240	0.3600	2.21		1320	1359.611	0.0812		
			1300	0.2400	2.29		1325	2740.976	0.1019		
			1330	0.0600	2.32		1330	2055.731	0.1181		
			1400	0.2600	2.45		1335	2632.207	0.1360		

1972 SELECTED RUNOFF EVENT							SONORA, TEXAS WATERSHED S-11			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 11 - 12, 1972 (CONTINUED)										
8-12			1420		0.3300	2.56	8-12	1340	1946.964	0.1527
			1430		0.2400	2.60		1345	2737.161	0.1714
			1440		0.3000	2.65		1350	2456.177	0.1899
								1355	4851.082	0.2265
								1400	2643.083	0.2474
								1405	3154.298	0.2712
								1410	2882.375	0.2929
								1415	2795.361	0.3150
								1420	2077.485	0.3307
								1425	3545.865	0.3574
								1430	3002.021	0.3811
								1435	2120.593	0.3971
								1440	3360.959	0.4224
								1445	4383.379	0.4570
								1450	2686.591	0.4773
								1455	2414.669	0.4955
								1500	4361.625	0.5300
								1505	2501.685	0.5489
								1510	2066.608	0.5645
								1515	1555.396	0.5768
								1520	728.750	0.5823
								1525	2208.008	0.5990
								1530	1642.410	0.6120
								1535	1827.316	0.6258
								1540	1631.532	0.6381
								1545	1555.396	0.6504
								1550	1239.966	0.6598
								1555	1424.872	0.6705
								1600	1794.687	0.6847
								1605	1087.688	0.6929
								1610	1457.502	0.7039
								1615	1381.364	0.7148
								1620	1120.320	0.7232
								1625	1381.364	0.7336
								1630	1546.964	0.7450
								1635	1968.717	0.7638
								1640	1185.581	0.7727
								1645	1033.304	0.7809
								1700	968.042	0.8031
								1715	815.765	0.8218
								1730	652.613	0.8368
								1745	706.998	0.8530
								1800	424.198	0.8627
								1815	489.459	0.8739
								1830	369.813	0.8824
								1900	304.552	0.8964
								1930	206.661	0.9059
								2030	152.276	0.9159
								2100	76.138	0.9234
								2130	54.384	0.9259
								2200	54.384	0.9284
								2230	0.0	0.9284
								2300	0.0	0.9284
								2330	0.0	0.9284
								2400	0.0	0.9284

NOTES: To convert runoff in CFS to IS/HR, multiply by 0.000092.



EVENT OF AUGUST 11 - 12, 1972

SOROBA, TEXAS WATERSHED S-11

LOCATION: Sutton County, Texas; gaging station on flood detention reservoir, 0.5 mi. SE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 686.00 acres 1.07 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)												SONORA, TEXAS WATERSHED S-13	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972 P	0.31	0.25	0.55	1.16	4.72	1.31	0.98	9.33	2.53	3.83	0.22	0.0	25.19
Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.124	0.0	0.0	0.0	0.0	0.124
STA AV P	0.68	1.27	0.78	2.59	2.92	1.43	1.69	2.54	3.12	2.21	1.22	0.65	21.10
Q	0.0	0.0	0.001	0.066	0.068	0.0	0.067	0.060	0.087	0.058	0.0	0.006	0.415
ANNUAL MAXIMUM DISCHARGE (10/40) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Maximum Discharge	1 Hour			2 Hours			Maximum Volume for Selected Time Interval			2 Days			8 Days
Date	Date	Vol.	Date	Date	Vol.	Date	6 Hours	12 Hours	1 Day	Date	Date	Vol.	Date
1972 8-9	0.053	8-9	0.034	8-9	0.066	8-9	0.118	8-9	0.122	8-8	0.123	8-7	0.123
												8-3	0.124
MAXIMUMS FOR PERIOD OF RECORD													
7-28	1.717	7-28	0.554	7-28	0.626	9-23	0.680	9-23	0.680	9-23	0.680	7-26	0.728
1971		1971		1971		1964		1964		1964		1971	1971

NOTES: Watershed conditions: Paved roads - 1.5% of the area, rangeland - 98.5%. Range in poor to fair condition, severely overgrazed during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.6-7. Precipitation data by Thiessen method using rain gages 12 and 13. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see National Weather Service records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

DAILY PRECIPITATION (inches)												SONORA, TEXAS WATERSHED S-13	
1972	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.17E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.08E	0.0	0.0	0.0
3	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.63	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	1.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53E	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.28	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.0	0.35	0.0	0.0	0.0	0.0
11	0.0	0.25E	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.11	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.17E	0.18E	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.48	0.0	1.31	0.0	0.0	0.00E	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56E	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42E	0.0	0.0	0.0	0.05E	0.0
19	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.26	0.68	0.0	0.0	0.0	0.10E	0.0	0.0	0.06E	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.28	3.19	0.07E	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.10E	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28E	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.07E	0.0	0.0	0.0	0.0	0.12E	0.0	0.00E	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.0	0.10E	0.0	0.0
TOTAL	0.31	0.25	0.55	1.16	4.72	1.31	0.98	9.33	2.53	3.83	0.22	0.0	
STA AV	0.68	1.27	0.78	2.59	2.92	1.43	1.69	2.54	3.12	2.21	1.22	0.65	

NOTES: For daily air temperatures, in the vicinity, see table for W-14 p. 70.001-1. Precipitation values are Thiessen weighted average of rain gages 12 and 13. Records began May 1961; part-year amounts not included in averages. STA AV based on 11 yr record period. Estimate codes may indicate that non-significant event totals are included.

1972		MEAN DAILY DISCHARGE (cfs)						SONORA, TEXAS WATERSHED S-13				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.046	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.507	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1152	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.124	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.001	0.066	0.068	0.0	0.067	0.060	0.087	0.058	0.0	0.006

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.034696. Records began in May 1961; part-year amounts not included in averages. STA AV based on 11 yr record period.

SONORA, TEXAS WATERSHED W-1

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 10.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-1													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1972	P 0.46	0.28	0.92	0.61	7.11	1.70	0.62	11.23	2.76	2.16	0.48	0.10	28.43	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.167		
STA AV	P 0.97	1.38	0.75	2.41	3.15	2.30	2.17	4.00	3.55	2.37	1.04	0.56	24.66	Q 0.076	0.004	0.0	0.174	0.181	0.051	0.012	0.841	0.175	0.149	0.001	0.0	1.664	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
	Maximum Discharge Date Date		1 Hour Date Date	2 Hours Date Date		6 Hours Date Date		12 Hours Date Date		1 Day Date Date		2 Days Date Date		8 Days Date Date													
1972	8-12	1.879	8-12	1.556	8-12	2.450	8-12	3.219	8-12	3.934	8-11	4.214	8-11	4.361	8-6	4.500											
MAXIMUMS FOR PERIOD OF RECORD																											
	8-12	1.879	8-12	1.556	8-12	2.450	8-12	3.219	8-12	3.934	8-11	4.214	8-11	4.361	8-6	4.500											
1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972												

NOTES: Watershed conditions: 100% rangeland; root plowed for brush control, August 1970; fair level of management; stocking rate, 30-35 animal units per section. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70-7-7. Precipitation data from rain gage 15. Precipitation and runoff records began October 1963; part-year amounts not included in station averages. For long-time precipitation records, see National Weather Service records at the Texas Agricultural Experiment Station No. 14. Watershed is on substation property.

1972 DAILY PRECIPITATION (inches)													SONORA, TEXAS WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0	0.21E	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
3	0.20S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.24	0.0	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	3.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.0	0.0	0.0	0.0	1.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.05	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.0	0.19E	0.0	0.0	0.28	0.0	0.0	0.0	0.0													
11	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.95	0.0	0.0	0.0	0.0													
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.67	0.06E	0.0	0.0	0.0													
13	0.0	0.0	0.0	0.0	1.40	0.11E	0.0	0.23	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	0.0	0.0	1.59	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.17E													
19	0.0	0.0	0.20	0.18E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.57	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0													
21	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	2.12	1.66	0.0	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0													
23	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.23	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
26	0.0	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	0.0	0.20E	0.0	0.0													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.10E	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0													
29	0.16E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
31	0.0	0.0	0.0	0.0	0.20E	0.0	0.0	0.0	0.18E	0.0	0.0	0.0													
TOTAL	0.46	0.28	0.92	0.61	7.11	1.70	0.62	11.23	2.76	2.16	0.48	0.10													
STA AV	0.97	1.38	0.75	2.41	3.15	2.30	2.17	4.00	3.55	2.37	1.04	0.56													

NOTES: For daily air temperatures, in the vicinity, see table for W-14, p. 70.001-1. Precipitation data obtained from rain gage 15. Records began October 1963; part-year amounts not included in averages. STA AV based on 9 yr record period. Estimate codes may indicate that non-significant event totals are included.

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.233495. Records began October 1963; part-year amounts not included in averages. STA AV based on 9 yr record period.

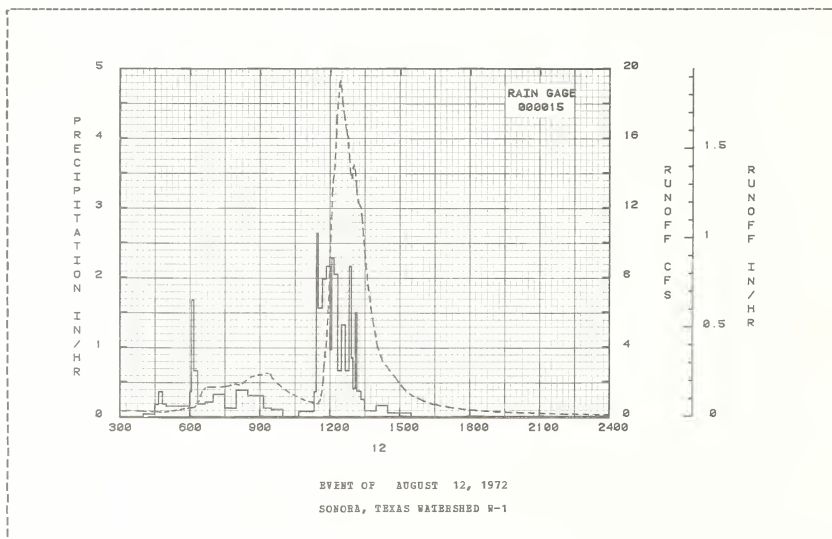
NOTES: To convert mean daily discharge in CFS to IN/HR, multiply by 0.057229.

1972 SELECTED RUNOFF EVENT				SONORA, TEXAS WATERSHED W-1							
ANTICIPATED CONDITIONS				RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 12, 1972 (CONTINUED)											
8-12	1240	1.3200	3.59	8-12	836	2.250	0.5083				
	1250	0.6600	3.70		846	2.356	0.5468				
	1255	2.1601	3.88		856	2.414	0.5853				
	1300	0.8399	3.95		906	2.429	0.6250				
	1306	0.4001	3.99		916	2.495	0.6657				
	1310	1.4999	4.09		921	2.495	0.6856				
	1320	0.3600	4.15		926	2.436	0.7050				
	1330	0.2401	4.19		936	2.132	0.7398				
	1400	0.0800	4.23		946	1.881	0.7705				
	1430	0.1600	4.31		956	1.711	0.7978				
	1530	0.0500	4.36		1006	1.519	0.8226				
					1016	1.368	0.8449				
					1026	1.254	0.8649				
					1036	1.140	0.8835				
					1046	1.017	0.9001				
					1056	0.926	0.9189				
					1106	0.863	0.9290				
					1116	0.806	0.9422				
					1130	0.739	0.9590				
					1132	0.778	0.9614				
					1134	0.879	0.9644				
					1136	1.012	0.9675				
					1138	1.225	0.9717				
					1140	1.452	0.9762				
					1142	1.991	0.9830				
					1144	2.652	0.9911				
					1146	3.128	1.0018				
					1148	3.432	1.0122				
					1150	4.045	1.0260				
					1152	4.677	1.0402				
					1154	5.354	1.0585				
					1156	6.378	1.0779				
					1158	7.441	1.1033				
					1200	9.174	1.1347				
					1202	10.160	1.1656				
					1204	11.456	1.2048				
					1206	12.851	1.2438				
					1208	13.647	1.2904				
					1210	13.892	1.3326				
					1212	14.525	1.3822				
					1214	15.134	1.4282				
					1216	16.225	1.4837				
					1218	17.356	1.5364				
					1220	18.068	1.5982				
					1222	18.330	1.6539				
					1224	19.039	1.7190				
					1226	19.324	1.7777				
					1230	18.661	1.9053				
					1234	17.829	2.0204				
					1238	17.038	2.1304				
					1242	16.452	2.2366				
					1246	16.020	2.3400				
					1250	14.897	2.4362				
					1252	14.178	2.4793				
					1254	13.854	2.5267				
					1256	13.665	2.5682				
					1258	13.949	2.6159				
					1300	14.293	2.6648				
					1302	14.467	2.7088				
					1304	14.216	2.7574				
					1306	13.854	2.7995				
					1308	13.292	2.8449				
					1310	12.742	2.8836				
					1312	12.276	2.9256				
					1316	12.187	3.0043				
					1318	12.134	3.0412				
					1320	11.941	3.0820				
					1322	11.542	3.1171				
					1324	11.099	3.1550				
					1326	10.403	3.1866				
					1330	9.373	3.2507				
					1334	8.443	3.3052				
					1338	7.509	3.3537				
					1342	6.892	3.3982				
					1346	6.228	3.4384				

NOTES: To convert mean daily discharge in CFS to IN/HR, multiply by 0.097229.

1972 SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED W-1					
AFTERCEDENT CONDITIONS			RAINFALL			SUBOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 12, 1972 (CONTINUED)											
							8-12	1351	5.484	3.4821	
								1356	4.880	3.5210	
								1401	4.215	3.5562	
								1406	3.813	3.5866	
								1416	3.169	3.6384	
								1426	2.893	3.6885	
								1436	2.622	3.7273	
								1446	2.328	3.7653	
								1456	2.011	3.7974	
								1506	1.730	3.8257	
								1516	1.471	3.8497	
								1526	1.253	3.8703	
								1536	1.144	3.8890	
								1546	1.039	3.9060	
								1606	0.850	3.9334	
								1626	0.701	3.9560	
								1646	0.607	3.9758	
								1706	0.528	3.9928	
								1736	0.426	4.0135	
								1806	0.366	4.0313	
								1836	0.314	4.0466	
								1906	0.273	4.0599	
								1936	0.232	4.0712	
								2006	0.209	4.0814	
								2100	0.175	4.0968	
								2200	0.116	4.1081	
								2400	0.082	4.1240	

NOTES: To convert mean daily discharge in CFS to IN/HR, multiply by 0.057229.



SONORA, TEXAS WATERSHED W-2

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 8.60 acres

MONTHLY PRECIPITATIONS AND RUNOFF (inches)							SONORA, TEXAS WATERSHED W-2						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972	P 0.43	0.25	0.82	0.51	6.01	1.50	0.76	10.61	2.45	2.00	0.51	0.10	25.55
	Q 0.0	0.0	0.0	0.0	1.085	0.0	0.0	6.879	0.0	0.0	0.0	0.0	7.964
STA AV	P 0.63	1.23	0.69	2.30	2.94	2.23	1.95	4.02	2.78	2.32	1.07	0.52	22.67
	Q 0.0	0.002	0.0	0.270	0.263	0.045	0.0	1.457	0.0	0.160	0.002	0.0	2.199
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	8-12	2.880		8-12	2.255	8-12	3.759	8-12	5.168	8-12	6.337	8-11	6.632
												8-11	6.791
												8-6	6.879
MAXIMUMS FOR PERIOD OF RECORD													
	8-12	2.880		8-12	2.255	8-12	3.759	8-12	5.168	8-12	6.337	8-11	6.632
	1972			1972		1972		1972		1972		1972	
												8-11	6.791
												8-6	6.879

NOTES: Watershed conditions: 100% rangeland; low good level of management; stocking rate, 32 animal units per section. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.8-6. Precipitation data from rain gage 16. Precipitation and runoff records began January 1965. For long-time precipitation records, see National Weather Service records at the Texas Agricultural Experiment Station, Substation No. 14. Watershed is on substation property.

1972 DAILY PRECIPITATION (inches)							SONORA, TEXAS WATERSHED W-2						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.17S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.11	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.91	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.14E	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0
11	0.0	0.25E	0.0	0.0	0.0	0.0	0.0	0.95	0.0	0.0	0.0	0.0	0.10E
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.59	0.04E	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.24E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.17E	0.0
19	0.0	0.0	0.18	0.13E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.53	0.28	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0
21	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	1.85	1.57	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.19E	0.0	0.0	0.0	0.25	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.13E	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0
29	0.13E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.17E	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.0
TOTAL	0.43	0.25	0.82	0.51	6.01	1.50	0.76	10.61	2.45	2.00	0.51	0.10	
STA AV	0.63	1.23	0.69	2.30	2.94	2.23	1.95	4.02	2.78	2.32	1.07	0.52	

NOTES: For daily air temperatures, in the vicinity, see table for W-14, p. 70.001-1. Precipitation data obtained from rain gage 16. Records began January 1965. STA AV based on 8 yr record period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED W-2											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.247	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.402	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.377	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.052	0.0	0.0	0.031	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.001	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0126	0.0	0.0	0.0802	0.0	0.0	0.0
INCEES	0.0	0.0	0.0	0.0	1.085	0.0	0.0	6.879	0.0	0.0	0.0
STA AV	0.0	0.002	0.0	0.270	0.263	0.045	0.0	1.457	0.0	0.160	0.002

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.767634. Records began January 1965. STA AV based on 8 yr record period.

1972 SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED W-2				
PRECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 12, 1972										
EG 000016			EG 000016							
8-12	1.26	0.262	8-12	300	0.0	0.0	8-12	400	0.241	0.0
				400	0.0	0.0		420	0.215	0.0087
				430	0.0400	0.02		450	0.203	0.0208
				440	0.1800	0.05		454	0.234	0.0225
				450	0.3000	0.10		456	0.276	0.0234
WATERSHED CONDITIONS:				510	0.1800	0.16		500	0.345	0.0259
100% rangeland; low good				530	0.1500	0.21		505	0.412	0.0295
level of management;				600	0.1800	0.30		510	0.467	0.0337
stocking rate, 32 animal				605	1.9159	0.46		515	0.459	0.0385
units per section.				610	0.8401	0.53		530	0.579	0.0493
				620	0.3600	0.59		540	0.618	0.0606
				640	0.1500	0.64		600	0.618	0.0885
				700	0.2400	0.72		605	0.668	0.0906
				730	0.3000	0.87		610	0.720	0.0972
				800	0.1400	0.94		612	0.798	0.1003
				830	0.3600	1.12		614	1.249	0.1040
				850	0.2700	1.21		618	2.299	0.1113
				900	0.2401	1.25		620	2.790	0.1216
				905	0.7759	1.29		622	3.005	0.1320
				910	0.3600	1.32		626	3.202	0.1558
				930	0.0600	1.34		632	3.202	0.1933
				1000	0.1000	1.39		638	3.029	0.2298
				1030	0.0200	1.40		642	2.861	0.2524
				1100	0.0400	1.42		646	2.705	0.2737
				1120	0.0600	1.44		650	2.576	0.2939
				1130	2.0400	1.78		700	2.465	0.3427
				1140	1.3800	2.01		730	2.465	0.4888
				1150	2.1000	2.36		740	2.569	0.5324
				1200	2.2799	2.74		755	2.569	0.6065
				1210	1.9800	3.07		800	2.517	0.6317

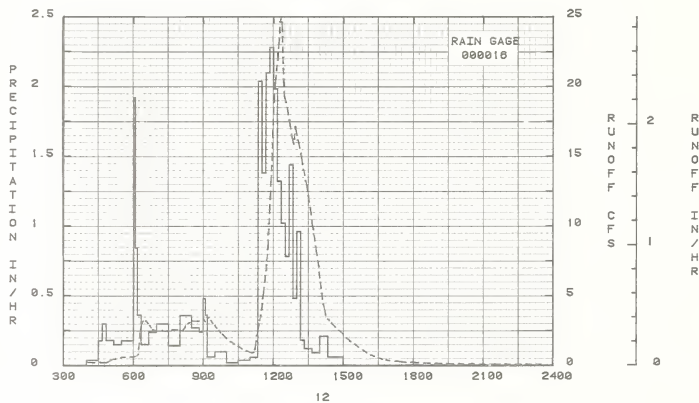
NOTES: To convert runoff in CFS to IN/EE, multiply by 0.115318.

1972 SELECTED RUNOFF EVENT				SCHROER, TEXAS WATERSHED W-2							
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)		Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 12, 1972 (CONTINUED)											
8-12			1220		1.3200	3.29		8-12	808	2.472	0.6699
			1230		1.0200	3.46			810	2.599	0.6790
			1240		0.7800	3.59			815	2.837	0.7059
			1250		1.4400	3.83			820	2.997	0.7335
			1300		0.4800	3.91			825	3.095	0.7623
			1310		0.9599	4.07			830	3.202	0.7935
			1320		0.1600	4.10			850	3.202	0.9161
			1340		0.1200	4.14			900	3.325	0.9794
			1400		0.0900	4.17			905	3.153	1.0101
			1420		0.2100	4.24			910	3.449	1.0413
			1500		0.0600	4.28			915	3.449	1.0755
									920	3.227	1.1071
									925	3.013	1.1366
									930	2.837	1.1656
									935	2.667	1.1916
									980	2.502	1.2160
									985	2.345	1.2400
									950	2.208	1.2616
									1000	1.932	1.3017
									1010	1.693	1.3360
									1020	1.535	1.3673
									1030	1.358	1.3953
									1040	1.201	1.4195
									1050	1.057	1.4414
									1100	0.943	1.4608
									1105	0.900	1.4695
									1110	0.964	1.4783
									1112	1.135	1.4826
									1116	1.755	1.4891
									1120	2.480	1.4984
									1124	2.985	1.5101
									1126	3.244	1.5213
									1130	4.063	1.5509
									1134	5.046	1.5703
									1136	5.611	1.5895
									1138	6.068	1.6132
									1142	7.224	1.6414
									1146	8.634	1.6750
									1148	9.794	1.7082
									1150	11.166	1.7507
									1152	12.134	1.7927
									1154	13.609	1.8449
									1156	14.838	1.8962
									1158	16.535	1.9598
									1200	18.484	2.0308
									1202	19.469	2.0992
									1204	20.206	2.1796
									1206	20.781	2.2535
									1210	22.010	2.4173
									1214	23.466	2.5914
									1218	24.808	2.7762
									1220	24.976	2.8771
									1222	23.927	2.9652
									1224	21.647	3.0576
									1226	19.959	3.1326
									1228	19.252	3.2121
									1232	18.838	3.3579
									1236	18.330	3.5002
									1240	17.570	3.6377
									1244	16.954	3.7659
									1248	16.287	3.8972
									1252	15.857	4.0203
									1256	17.123	4.1466
									1300	16.514	4.2830
									1305	15.918	4.4364
									1310	15.134	4.5833
									1315	14.409	4.7297
									1320	13.609	4.8622
									1325	12.906	4.9876
									1330	12.064	5.1113
									1335	11.189	5.2211
									1340	10.096	5.3216
									1345	9.311	5.4178
									1350	8.254	5.5009
									1355	7.427	5.5751

NOTES: To convert runoff in CFS to in/hr, multiply by 0.115318.

1972 SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED W-2				
ANTECEDENT CONDITIONS			RAINFALL			RUSCFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 12, 1972 (CONTINUED)										
							8-12	1400	6.290	5.6431
								1405	5.130	5.6971
								1410	4.253	5.7415
								1415	3.598	5.7804
								1420	3.312	5.8131
								1425	3.202	5.8439
								1430	3.029	5.8768
								1440	2.744	5.9294
								1450	2.502	5.9802
								1500	2.236	6.0261
								1510	1.945	6.0657
								1520	1.699	6.1010
								1530	1.519	6.1322
								1540	1.298	6.1588
								1550	1.089	6.1819
								1600	0.913	6.2013
								1610	0.747	6.2170
								1620	0.639	6.2304
								1630	0.535	6.2418
								1640	0.452	6.2511
								1650	0.385	6.2592
								1700	0.337	6.2662
								1720	0.283	6.2781
								1740	0.224	6.2878
								1800	0.197	6.2960
								1830	0.161	6.3063
								1900	0.132	6.3147
								1930	0.100	6.3214
								2130	0.062	6.3401
								2330	0.048	6.3528

NOTES: To convert runoff in cfs to IN/HR, multiply by 0.115318.



EVENT OF AUGUST 12, 1972
SONORA, TEXAS WATERSHED W-2

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 6.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-3															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1972	P	0	0.13	0.25	0.90	0.53	6.38	1.43	0.47	15.22	2.41	1.91	0.50	0.08	30.21														
	Q	0	0.0	0.0	0.0	0.016	0.0	0.0	0.0	4.234	0.0	0.0	0.0	0.0	4.251														
STA AV	P	0	0.58	1.26	0.73	2.56	3.19	2.35	1.91	5.03	2.72	2.50	1.08	0.54	24.42														
	Q	0	0.0	0.0	0.0	0.158	0.010	0.002	0.002	0.790	0.0	0.010	0.0	0.0	0.971														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
Maximum Discharge															Maximum Volume for Selected Time Interval														
		Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Date	Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1972		8-12	1.670	8-12	1.408	8-12	2.250	8-12	2.746	8-12	3.160	8-12	3.215	8-12	3.264	8-10	4.234												
MAXIMUMS FOR PERIOD OF RECORD																													
		8-12	1.670	8-12	1.408	8-12	2.250	8-12	2.746	8-12	3.160	8-12	3.215	8-12	3.264	8-10	4.234												
		1972		1972		1972		1972		1972		1972		1972		1972		1972											

NOTES: Watershed conditions: 100% rangeland; range in fair condition. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.9-4. Precipitation data from rain gage 17. Precipitation and runoff records began January 1965. For long-time precipitation records, see National Weather Service records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1972 DAILY PRECIPITATION (inches)						SONORA, TEXAS WATERSHED W-3							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.20E	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.66	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.82	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.96	0.0	0.0	0.0	0.0	0.0
11	0.0	0.25E	0.0	0.0	0.0	0.0	0.0	1.33	0.0	0.0	0.0	0.08E	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.36	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	1.23	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.70	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	1.12	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	0.0
19	0.0	0.0	0.21	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.62	0.18	0.0	0.0	0.0	0.0	0.0	0.0E	0.0	0.0	0.0
21	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	2.03	1.62	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.22E	0.0	0.0	0.0	0.31	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.25E	0.0	0.0	0.0	0.0	0.0	0.0
29	0.13E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0
TOTAL	0.13	0.25	0.90	0.53	6.38	1.43	0.47	15.22	2.41	1.91	0.50	0.08	
STA AV	0.58	1.26	0.73	2.56	3.19	2.35	1.91	5.03	2.72	2.50	1.08	0.54	

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, 70.001-1. Precipitation data obtained from rain gage 17. Records began January 1965. STA AV based on 8 yr record period. Estimate codes may indicate that non-significant event totals are included.

1972 MEAN DAILY DISCHARGE (cfs)												SONORA, TEXAS WATERSHED W-3											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.905	0.0	0.0	0.0	0.0											
13	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.014	0.0	0.0	0.0	0.0											
14	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0	0.0	0.0											
17	0.0	0.0	0.0	0.0	0.0	0.0	0.141	0.0	0.0	0.0	0.0	0.0											
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0											
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
MEAN	0.0	0.0	0.0	0.0	0.0001	0.0	0.0	0.0384	0.0	0.0	0.0	0.0											
INCHES	0.0	0.0	0.0	0.0	0.016	0.0	0.0	4.234	0.0	0.0	0.0	0.0											
STA AV	0.0	0.0	0.0	0.158	0.010	0.002	0.002	0.790	0.0	0.010	0.0	0.0											

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 3.552486. Records began January 1965. STA AV based on 8 yr record period.

1972 SELECTED RUNOFF EVENT												SONORA, TEXAS WATERSHED W-3											
PRECEDING CONDITIONS						RAINFALL						RUNOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Time	Rate	Acc.											
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	Mo-Day	of Day	(cfs)	(inches)											
EVENT OF AUGUST 12, 1972																							
8-12	RG 000017 1.79	0.020	8-12	RG 000017	400	0.0	0.0	8-12	406	0.051	0.0												
					440	0.0900	0.06		446	0.089	0.0049												
					500	0.2400	0.14		506	0.071	0.0078												
					530	0.2000	0.24		526	0.105	0.0122												
					600	0.1600	0.32		536	0.140	0.0153												
					615	0.2000	0.37		556	0.154	0.0225												
					620	0.7200	0.43		611	0.154	0.0282												
					630	0.7200	0.55		614	0.191	0.0295												
					700	0.3600	0.73		617	0.250	0.0312												
					730	0.3200	0.89		621	0.342	0.0341												
					800	0.1400	0.96		625	0.483	0.0382												
					830	0.2400	1.08		629	0.525	0.0432												
					900	0.3400	1.25		637	0.485	0.0532												
					910	0.2599	1.30		642	0.489	0.0594												
					930	0.1500	1.35		647	0.532	0.0656												
WATERSHED CONDITIONS: 100% rangeland; range in fair condition.					1000	0.0800	1.39		652	0.675	0.0729												
					1110	0.0	1.39		656	0.743	0.0759												
					1135	0.1200	1.44		706	0.778	0.0988												
					1140	1.2001	1.54		716	0.778	0.1181												
					1185	3.7199	1.85		726	0.728	0.1364												
					1150	2.5201	2.06		736	0.782	0.1552												
					1155	2.5199	2.27		756	0.782	0.1936												
					1200	1.0799	2.36		806	0.739	0.2125												
					1210	0.8401	2.50		826	0.774	0.2497												
					1220	1.6199	2.77		836	0.855	0.2700												
					1230	2.8801	3.25		846	0.888	0.2917												
					1240	1.6199	3.52		856	0.973	0.3143												
					1250	2.4001	3.92		906	0.983	0.3381												
					1300	2.0599	4.27		916	0.846	0.3603												
					1310	1.5601	4.53		926	0.732	0.3795												

NOTES: To convert runoff in CFS to IS/EE, multiply by 0.148020.

1972 SELECTED RUNOFF EVENT						SCHOLLA, TEXAS WATERSHED W-3				
ANTECEDENT CONDITIONS			RAINFALL			RUSCFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 12, 1972 (CONTINUED)										
8-12	1320	0.2999	4.58	8-12	936	0.603	0.3961			
	1330	0.2401	4.62		946	0.509	0.4099			
	1340	0.2400	4.66		956	0.440	0.4214			
	1400	0.1200	4.70		1006	0.345	0.4312			
	1415	0.2000	4.75		1016	0.285	0.4390			
	1420	0.8399	4.82		1026	0.250	0.4455			
	1430	0.1200	4.84		1036	0.221	0.4514			
	1500	0.1200	4.90		1046	0.192	0.4565			
					1106	0.161	0.4652			
					1121	0.143	0.4708			
					1126	0.147	0.4726			
					1128	0.177	0.4734			
					1130	0.241	0.4745			
					1132	0.355	0.4759			
					1134	0.542	0.4782			
					1136	0.938	0.4816			
					1138	1.435	0.4878			
					1140	1.958	0.4956			
					1142	3.095	0.5087			
					1144	4.205	0.5256			
					1146	4.963	0.5495			
					1148	5.682	0.5741			
					1150	6.191	0.6050			
					1152	6.454	0.6342			
					1154	6.454	0.6678			
					1158	6.203	0.7300			
					1202	5.982	0.7899			
					1206	5.849	0.8480			
					1208	5.670	0.8700			
					1210	5.873	0.9047			
					1212	6.241	0.9362			
					1214	6.607	0.9659			
					1216	7.143	1.0017			
					1218	7.814	1.0363			
					1220	8.341	1.0783			
					1226	8.516	1.2001			
					1231	8.782	1.3101			
					1236	9.158	1.4190			
					1241	10.209	1.5366			
					1246	10.748	1.6699			
					1251	10.998	1.8019			
					1256	11.285	1.9372			
					1301	10.550	2.0761			
					1306	9.621	2.1986			
					1311	8.356	2.3077			
					1316	7.536	2.4088			
					1321	6.866	2.4962			
					1326	6.043	2.5746			
					1331	5.130	2.6457			
					1336	4.263	2.7027			
					1341	3.598	2.7504			
					1346	3.013	2.7924			
					1351	2.517	2.8260			
					1356	2.160	2.8544			
					1401	1.804	2.8796			
					1406	1.594	2.9002			
					1408	1.524	2.9083			
					1412	1.572	2.9235			
					1416	1.572	2.9390			
					1421	1.445	2.9573			
					1426	1.358	2.9743			
					1436	1.293	3.0073			
					1441	1.225	3.0226			
					1446	1.066	3.0372			
					1451	0.934	3.0493			
					1456	0.888	3.0604			
					1501	0.806	3.0712			
					1506	0.701	3.0803			
					1511	0.628	3.0884			
					1516	0.572	3.0960			
					1526	0.486	3.1088			
					1536	0.398	3.1198			
					1546	0.317	3.1287			
					1556	0.276	3.1359			
					1606	0.239	3.1423			

NOTES: To convert runoff in CFS to I8/HR, multiply by 0.148020.

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 4.50 acres

MONTHLY PRECIPITATION AND EUNOFF (inches)													SONORA, TEXAS WATERSHED W-4																		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																		
1972	P 0.50	0.26	0.98	0.58	5.97	1.38	0.59	14.85	2.16	1.97	0.46	0.07	29.77																		
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.395	0.0	0.0	0.0	0.0	1.395																		
STA AV	P 0.64	1.11	0.84	2.92	2.58	2.44	2.23	5.62	3.03	2.72	1.15	0.48	25.75																		
	Q 0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.246	0.0	0.010	0.0	0.0	0.290																		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF EUNOFF (inches) FOR SELECTED TIME INTERVALS																															
Maximum Discharge													Maximum Volume for Selected Time Interval																		
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days															
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Date	Date	Date	Date	Date	Date	Date						
1972	8-12	0.659	8-12	0.526	8-12	0.854	8-12	1.128	8-12	1.202	8-12	1.211	8-12	1.211	8-12	1.211	8-9	1.395													
MAXIMUMS FOR PERIOD OF RECORD																															
8-12		0.659		8-12		0.526		8-12		0.854		8-12		1.128		8-12		1.202		8-12		1.211		8-12		1.211		8-9		1.395	
1972				1972				1972				1972				1972				1972				1972				1972			

NOTES: Watershed conditions: Rangeland - 100% range in low good condition. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70-10-4. Precipitation data from rain gage 18. Precipitation and runoff records began January 1966. For long-time precipitation records, see National Weather Service records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1972 DAILY PRECIPITATION (inches)													SONORA, TEXAS WATERSHED W-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
3	0.21S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.57	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	2.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.45	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.76	0.0	0.0	0.0	0.0													
11	0.0	0.26E	0.0	0.0	0.0	0.0	0.0	1.45	0.0	0.0	0.0	0.07E													
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.84	0.0	0.0	0.0	0.0													
13	0.0	0.0	0.0	0.0	0.95	0.0	0.0	0.29	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.71	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.78	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0													
19	0.0	0.0	0.21	0.17E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.62	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
21	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	2.16	1.61	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0													
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0	0.0	0.32													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
26	0.0	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.12E	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0													
29	0.17E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
31	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.0													
TOTAL	0.50	0.26	0.98	0.58	5.97	1.38	0.59	14.85	2.16	1.97	0.46	0.07													
STA AV	0.64	1.11	0.84	2.92	2.58	2.44	2.23	5.62	3.03	2.72	1.15	0.48													

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70-001-1. Precipitation data obtained from rain gage 18. Records began January 1966. STA AV based on 7 yr record period. Estimate codes may indicate that non-significant event totals are included.

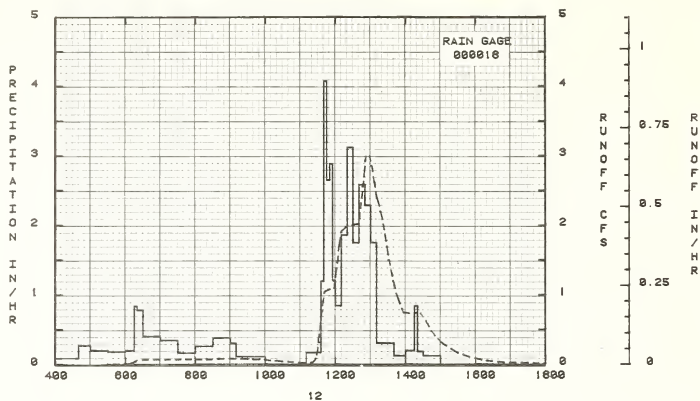
1972 MEAN DAILY DISCHARGE (cfs)												SONORA, TEXAS WATERSHED W-4													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.229	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0065	0.0	0.0	0.0	0.0	MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.395	0.0	0.0	0.0	0.0	INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.246	0.0	0.010	0.0	0.0	STA AV	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.010	0.0	0.0	0.0	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 5.289256. Records began January 1966. STA AV based on 7 yr record period.

1972 SELECTED RUNOFF EVENT												SONORA, TEXAS WATERSHED W-4											
PRECEDENT CONDITIONS						RAINFALL						RUNOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Time	Acc.	Date	Time	Date	Time	Acc.							
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	Mo-Day	of Day	(cfs)	Mo-Day	of Day	Mo-Day	of Day	(inches)							
EVENT OF AUGUST 12, 1972																							
EG 000018																							
8-12	1.96	0.0	8-12	EG 000018	0.0	0.0	8-12	530	0.0	0.0													
				440	0.0900	0.06		535	0.003	0.0													
				500	0.2700	0.15		540	0.007	0.0001													
				530	0.2000	0.25		608	0.010	0.0010													
				600	0.1600	0.34		610	0.017	0.0011													
WATERSHED CONDITIONS:																							
100% rangeland; range in low good condition.																							
				615	0.2000	0.39		614	0.031	0.0015													
				620	0.8401	0.46		616	0.044	0.0018													
				630	0.7799	0.59		620	0.058	0.0025													
				700	0.4000	0.79		630	0.071	0.0049													
				730	0.3400	0.96		650	0.072	0.0101													
				800	0.1600	1.04		820	0.072	0.0339													
				830	0.2600	1.17		840	0.077	0.0394													
				900	0.3800	1.36		900	0.079	0.0452													
				910	0.3000	1.41		930	0.079	0.0539													
				1000	0.1080	1.50		940	0.075	0.0567													
				1110	0.0	1.50		950	0.074	0.0595													
				1135	0.1680	1.57		1000	0.062	0.0620													
				1140	1.1999	1.67		1020	0.050	0.0661													
				1145	4.0799	2.01		1030	0.035	0.0677													
				1150	2.6400	2.23		1100	0.022	0.0708													
				1155	2.8601	2.47		1120	0.020	0.0723													
				1200	1.2001	2.57		1122	0.032	0.0725													
				1210	0.8400	2.71		1124	0.049	0.0728													
				1220	1.8600	3.02		1126	0.079	0.0732													
				1230	3.1199	3.54		1128	0.144	0.0741													
				1240	1.7401	3.83		1130	0.239	0.0756													
				1250	2.5600	4.26		1132	0.430	0.0779													
				1300	2.2800	4.64		1134	0.525	0.0816													
				1310	1.7400	4.53		1136	0.700	0.0858													
				1320	0.3000	4.98		1138	0.860	0.0919													

1972			SELECTED RUNOFF EVENT			SONOMA, TEXAS WATERSHED W-4		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day
								(cfs)
								Acc. (inches)
EVENT OF AUGUST 12, 1972 (CONTINUED)								
8-12			1330	0.3000	5.03	8-12	1140	0.946
			1340	0.3000	5.06		1142	1.052
			1400	0.1200	5.12		1150	1.084
			1415	0.2000	5.17		1158	1.099
			1420	0.8401	5.24		1200	1.274
			1430	0.1800	5.27		1202	1.384
			1500	0.1200	5.33		1204	1.483
							1206	1.680
							1208	1.825
							1210	1.909
							1220	1.995
							1240	2.024
							1245	2.403
							1250	2.837
							1252	2.988
							1258	2.988
							1302	2.843
							1306	2.618
							1310	2.408
							1315	2.268
							1320	2.082
							1325	1.843
							1330	1.567
							1335	1.344
							1340	1.157
							1345	0.986
							1350	0.871
							1356	0.735
							1406	0.725
							1415	0.741
							1420	0.741
							1425	0.725
							1430	0.684
							1435	0.612
							1440	0.536
							1445	0.467
							1450	0.411
							1500	0.321
							1510	0.258
							1520	0.206
							1530	0.164
							1540	0.128
							1550	0.097
							1600	0.079
							1610	0.063
							1620	0.051
							1640	0.033
							1700	0.024
							1730	0.017
							1800	0.012
							1830	0.010
							1900	0.007
							2000	0.006
							2400	0.002

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.220386.



EVENT OF AUGUST 12, 1972

SONORA, TEXAS WATERSHED W-4

SONORA, TEXAS WATERSHED W-5

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 7.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-5				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1972	P	0.49	0.23	0.89	0.59	6.19	1.17	0.41	14.35	2.29	1.83	0.42	28.94					
	Q	0.0	0.0	0.0	0.0	0.269	0.0	0.0	5.017	0.0	0.0	0.0	5.286					
STA AV	P	0.60	0.98	0.80	2.78	2.52	2.41	1.96	5.45	2.67	2.56	1.02	24.19					
	Q	0.0	0.0	0.0	0.167	0.048	0.105	0.003	1.101	0.001	0.115	0.0	1.540					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days				
	Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Date	Date	Date	Date	Date	Vol.			
1972	8-12	2.081	8-12	1.551	8-12	2.489	8-12	3.098	8-12	3.720	8-11	3.983	8-11	4.096	8-10	5.016		
MAXIMUMS FOR PERIOD OF RECORD																		
	8-12	2.081	8-12	1.551	8-12	2.489	8-12	3.098	8-12	3.720	8-11	3.983	8-11	4.096	8-10	5.016		
1972			1972		1972		1972		1972		1972		1972		1972			

NOTES: Watershed conditions: Rangeland - 100%; range overgrazed, low poor condition. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.15-5. Precipitation data from rain gage 19. Precipitation and runoff records began January 1966. For long-time precipitation records, see National Weather Service records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1972 DAILY PRECIPITATION (inches)													SONORA, TEXAS WATERSHED W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.17E	0.0	0.0	0.0	0.20E	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.23S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.38	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	2.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.48	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.69	0.0	0.0	0.0	0.0		
11	0.0	0.23E	0.0	0.0	0.0	0.0	0.0	1.42	0.0	0.0	0.0	0.08E		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.73	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.28	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	1.08	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.70	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.89E	0.0	0.67	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0		
19	0.0	0.0	0.21	0.16E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.59	0.27	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0		
21	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	1.91	1.32	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0	0.17	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.13E	0.0	0.0	0.0	0.0	0.0	0.23E	0.0	0.0	0.0	0.0	0.0		
29	0.13E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.18E	0.0	0.0		
TOTAL	0.49	0.23	0.89	0.59	6.19	1.17	0.41	14.35	2.29	1.83	0.42	0.08		
STA AV	0.60	0.98	0.80	2.78	2.52	2.41	1.96	5.45	2.67	2.56	1.02	0.44		

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70.001-1. Precipitation data obtained from rain gage 19. Records began January 1966. STA AV based on 7 yr record period. Estimate codes say indicate that non-significant event totals are included.

1972						MEAN DAILY DISCHARGE (cfs)												SONORA, TEXAS WATERSHED W-5											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
6	0.0	0.0	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0					
7	0.0	0.0	0.0	0.0	0.0	0.089	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.089	0.0	0.0	0.0	0.0	0.0					
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
10	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.012	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.012	0.0	0.0	0.0					
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.049	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.049	0.0	0.0	0.0	0.0					
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.181	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	1.181	0.0	0.0	0.0	0.0					
13	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.011	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.006	0.0	0.011	0.0	0.0	0.0	0.0					
14	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0					
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.159	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.159	0.0	0.0	0.0	0.0					
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.106	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.106	0.0	0.0	0.0	0.0					
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
MEAN	0.0	0.0	0.0	0.0	0.0	0.0026	0.0	0.0	0.0490	0.0	0.0	0.0	MEAN	0.0	0.0	0.0	0.0	0.0026	0.0	0.0490	0.0	0.0	0.0	0.0					
INCHES	0.0	0.0	0.0	0.0	0.0	0.269	0.0	0.0	5.017	0.0	0.0	0.0	INCHES	0.0	0.0	0.0	0.0	0.269	0.0	5.017	0.0	0.0	0.0	0.0					
STA AV	0.0	0.0	0.0	0.0	0.167	0.048	0.105	0.003	1.101	0.001	0.115	0.0	STA AV	0.0	0.0	0.0	0.0	0.167	0.048	0.105	0.003	1.101	0.001	0.115	0.0				

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 3.305785. Records began January 1966. STA AV based on 7 yr record period.

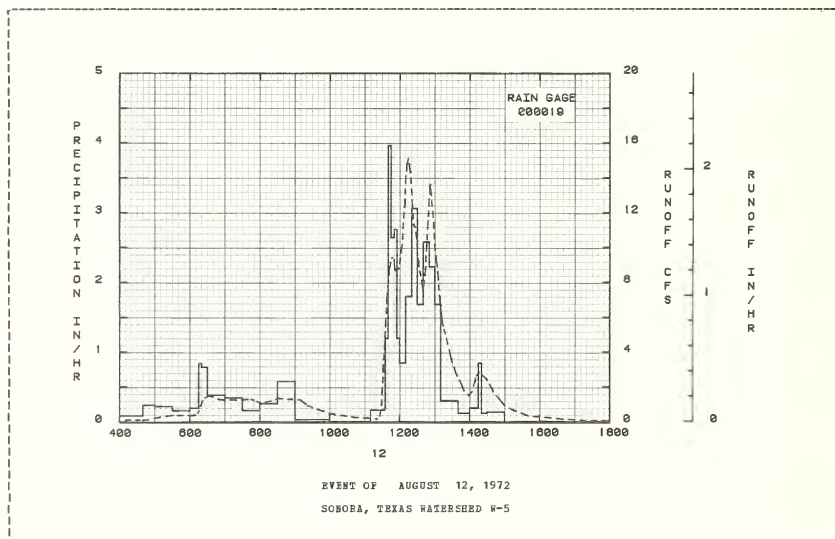
1972 SELECTED RUNOFF EVENT												SONORA, TEXAS WATERSHED W-5											
ANTICEDMENT CONDITIONS						RAINFALL						RUNOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		Date	Time	Rate	Acc.			Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(cfs)	(inches)			Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 12, 1972																							
EG 000019												EG 000019											
8-12	1.92	0.310	8-12	400	0.0	0.0	8-12	410	0.109	0.0		8-12	410	0.109	0.0			8-12	410	0.109	0.0		
				440	0.0500	0.06		430	0.056	0.0047			430	0.056	0.0047				430	0.056	0.0047		
				500	0.2400	0.14		435	0.054	0.0058			435	0.054	0.0058				435	0.054	0.0058		
				530	0.2200	0.25		440	0.100	0.0069			440	0.100	0.0069				440	0.100	0.0069		
				600	0.1600	0.33		450	0.137	0.0083			450	0.137	0.0083				450	0.137	0.0083		
WATERSHED CONDITIONS: 100% range overgrazed, low poor condition.																							
				615	0.2000	0.38		500	0.222	0.0107			500	0.222	0.0107				500	0.222	0.0107		
				620	0.8399	0.45		510	0.289	0.0138			510	0.289	0.0138				510	0.289	0.0138		
				630	0.7600	0.58		520	0.338	0.0175			520	0.338	0.0175				520	0.338	0.0175		
				700	0.3800	0.77		530	0.376	0.0258			530	0.376	0.0258				530	0.376	0.0258		
				730	0.3400	0.94		605	0.376	0.0559			605	0.376	0.0559				605	0.376	0.0559		
				800	0.1600	1.02		610	0.394	0.0603			610	0.394	0.0603				610	0.394	0.0603		
				830	0.2600	1.15		614	0.485	0.0622			614	0.485	0.0622				614	0.485	0.0622		
				900	0.5800	1.44		616	0.627	0.0649			616	0.627	0.0649				616	0.627	0.0649		
				1000	0.3000	1.47		620	1.038	0.0653			620	1.038	0.0653				620	1.038	0.0653		
				1110	0.0	1.47		622	1.217	0.0742			622	1.217	0.0742				622	1.217	0.0742		
				1135	0.1680	1.54		626	1.384	0.0800			626	1.384	0.0800				626	1.384	0.0800		
				1140	1.2001	1.64		630	1.454	0.0917			630	1.454	0.0917				630	1.454	0.0917		
				1145	3.9600	1.97		632	1.495	0.1000			632	1.495	0.1000				632	1.495	0.1000		
				1150	2.6400	2.19		640	1.417	0.1266			640	1.417	0.1266				640	1.417	0.1266		
				1155	2.7600	2.42		650	1.270	0.1577			650	1.270	0.1577				650	1.270	0.1577		
				1200	1.2001	2.52		700	1.232	0.1723			700	1.232	0.1723				700	1.232	0.1723		
				1210	0.8400	2.66		710	1.262	0.2005			710	1.262	0.2005				710	1.262	0.2005		
				1220	1.7599	2.96		720	1.232	0.2294			720	1.232	0.2294				720	1.232	0.2294		
				1230	3.0601	3.47		730	1.262	0.2583			730	1.262	0.2583				730	1.262	0.2583		
				1240	1.6800	3.75		740	1.301	0.2730			740	1.301	0.2730				740	1.301	0.2730		
				1250	2.5800	4.18		745	1.274	0.2882			745	1.274	0.2882				745	1.274	0.2882		
				1300	2.2201	4.55		750	1.239	0.3024			750	1.239	0.3024				750	1.239	0.3024		
				1310	1.6800	4.83		755	1.149	0.3159			755	1.149	0.3159				755	1.149	0.3159		
				1320	0.3000	4.88		804	1.031	0.3253			804	1.031	0.3253				804	1.031	0.3253		
				1330	0.2999	4.93		810	1.113	0.3397			810	1.113	0.3397				810	1.113	0.3397		

1972 SELECTED RUSCPF EVENT				SONORA, TEXAS WATERSHED W-5						
PRECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 12, 1972 (CONTINUED)										
8-12	1340	0.3000	4.98	8-12	830	1.333	0.3692			
	1400	0.1200	5.02		910	1.247	0.3974			
	1415	0.2000	5.07		918	1.007	0.4073			
	1420	0.8401	5.14		922	0.919	0.4161			
	1430	0.1200	5.16		930	0.825	0.4243			
	1500	0.1400	5.23		940	0.692	0.4325			
					950	0.590	0.4396			
					1000	0.463	0.4455			
					1020	0.352	0.4541			
					1040	0.261	0.4604			
					1100	0.210	0.4656			
					1110	0.191	0.4701			
					1120	0.164	0.4720			
					1122	0.177	0.4727			
					1126	0.344	0.4740			
					1128	0.656	0.4764			
					1130	1.667	0.4820			
					1132	2.982	0.4920			
					1134	4.269	0.5096			
					1136	5.643	0.5309			
					1138	7.120	0.5618			
					1140	7.831	0.5940			
					1142	8.689	0.6340			
					1144	9.153	0.6724			
					1146	9.407	0.7173			
					1148	9.407	0.7578			
					1150	9.280	0.8030			
					1152	8.711	0.8417			
					1154	8.600	0.8836			
					1158	8.812	0.9632			
					1200	9.096	1.0066			
					1202	9.795	1.0473			
					1204	10.192	1.0957			
					1206	11.406	1.1422			
					1208	12.475	1.2000			
					1210	14.107	1.2572			
					1212	14.635	1.3268			
					1214	15.111	1.3908			
					1216	14.746	1.4631			
					1218	14.277	1.5256			
					1220	13.305	1.5924			
					1222	12.233	1.6474			
					1224	11.239	1.7042			
					1226	11.150	1.7524			
					1228	10.796	1.8055			
					1230	9.665	1.8550			
					1232	9.210	1.8956			
					1234	8.600	1.9387			
					1236	8.401	1.9753			
					1238	7.926	2.0148			
					1240	7.465	2.0479			
					1242	8.108	2.0856			
					1244	8.902	2.1222			
					1246	10.156	2.1683			
					1248	11.496	2.2149			
					1250	12.788	2.2737			
					1252	13.620	2.3305			
					1254	12.966	2.3949			
					1256	12.020	2.4487			
					1258	11.086	2.5046			
					1300	10.131	2.5560			
					1302	9.291	2.5978			
					1304	8.691	2.6418			
					1306	8.151	2.6785			
					1308	7.150	2.7155			
					1310	6.607	2.7451			
					1312	6.041	2.7757			
					1314	5.493	2.8005			
					1316	5.276	2.8266			
					1318	5.031	2.8468			
					1320	4.775	2.8725			
					1322	4.440	2.8923			
					1326	3.909	2.9097			
					1330	3.401	2.9268			
					1338	2.624	2.9530			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.1377410.

1972 SELECTED RUNOFF EVENT			SONORA, TEXAS WATERSHED W-5							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 12, 1972 (CONTINUED)										
8-12							1346		2.141	2.9734
							1350		1.774	2.9913
							1358		1.487	3.0054
							1404		1.752	3.0135
							1410		2.499	3.0235
							1412		2.651	3.0360
							1416		2.849	3.0497
							1420		2.713	3.0751
							1430		2.408	3.1048
							1440		1.743	3.1270
							1450		1.329	3.1431
							1500		0.906	3.1552
							1515		0.653	3.1633
							1520		0.595	3.1704
							1540		0.344	3.1790
							1600		0.256	3.1854
							1620		0.200	3.1903
							1640		0.126	3.1936
							1700		0.050	3.1959
							1720		0.063	3.1994
							1800		0.036	3.2014
							2000		0.018	3.2042

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.1377410.



SONORA, TEXAS WATERSHED W-6

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 6.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-6																			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																				
1972 P	0.46	0.26	0.52	0.59	6.24	1.52	0.53	14.05	2.46	2.05	0.52	0.10	29.70																				
Q	0.0	0.0	0.0	0.0	0.008	0.0	0.0	2.590	0.0	0.0	0.0	0.0	2.558																				
STA AV P	0.65	1.07	0.89	2.92	2.61	2.38	2.17	5.56	2.95	2.68	1.24	0.46	25.58																				
Q	0.0	0.0	0.0	0.131	0.007	0.015	0.008	0.534	0.0	0.008	0.0	0.0	0.699																				
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																																	
Maximum Discharge												Maximum Volume for Selected Time Interval																					
Date		Rate		1 Hour		Date		Vol.		2 Hours		Date		Vol.		6 Hours		12 Hours		1 Day		Date		Vol.		2 Days		Date		Vol.		8 Days	
1972		8-12		1.369		8-12		1.130		8-12		1.733		8-12		1.983		8-12		2.115		8-12		2.116		8-12		2.116		8-9		2.590	
MAXIMUMS FOR PERIOD OF RECORD																																	
4-30 1966		1.900		8-12 1972		1.130		8-12 1972		1.733		8-12 1972		1.983		8-12 1972		2.115		8-12 1972		2.116		8-12 1972		2.116		8-9 1972		2.590			

NOTES: Watershed conditions: Rangeland - 100%; range condition - poor. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.12-4. Precipitation data from rain gage 20. Precipitation and runoff records began January 1966. For long-time precipitation records, see National Weather Service records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1972 DAILY PRECIPITATION (inches)												SONORA, TEXAS WATERSHED W-6											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.22E	0.0	0.0	0.0											
2	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
3	0.18E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.254	0.0	0.0	0.0	0.0											
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20E	0.0	0.0	0.0											
6	0.0	0.0	0.0	0.0	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
7	0.0	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0											
10	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.69	0.0	0.0	0.0	0.0											
11	0.0	0.26E	0.0	0.0	0.0	0.0	0.0	1.34	0.0	0.0	0.0	0.0											
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.26	0.0	0.0	0.0	0.0											
13	0.0	0.0	0.0	0.0	1.18	0.0	0.0	0.26E	0.0	0.0	0.0	0.0											
14	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
15	0.0	0.0	0.0	0.0	0.0	1.47	0.0	0.0	0.0	0.0	0.0	0.0											
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.55	0.0	0.0	0.0	0.0											
17	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	1.01	0.0	0.0	0.0	0.0											
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.0											
19	0.0	0.0	0.21	0.16E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
20	0.0	0.0	0.60	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0											
21	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	2.04	1.55	0.0	0.0											
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0											
23	0.0	0.0	0.0	0.0	0.0	0.0	0.33E	0.0	0.0	0.0	0.23	0.0											
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0											
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
26	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
28	0.10E	0.0	0.0	0.0	0.0	0.0	0.20E	0.0	0.0	0.0	0.0	0.0											
29	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
31	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.16E	0.0	0.0	0.0											
TOTAL	0.46	0.26	0.92	0.59	6.24	1.52	0.53	14.05	2.46	2.05	0.52	0.10											
STA AV	0.65	1.07	0.89	2.92	2.61	2.38	2.17	5.56	2.95	2.68	1.24	0.46											

NOTES: For daily air temperature, in the vicinity, see table for Watershed W-14, p. 70.001-1. Precipitation data obtained from rain gage 20. Records began January 1966. STA AV based on 7 yr record period. Estimate codes may indicate that non-significant event totals are included.

1972					SONORA, TEXAS WATERSHED #6											
MEAN DAILY DISCHARGE (cfs)																
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
6	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.613	0.0	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.082	0.0	0.0	0.0	0.0				
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
MEAN	0.0	0.0	0.0	0.0	0.0001	0.0	0.0	0.0242	0.0	0.0	0.0	0.0				
INCHES	0.0	0.0	0.0	0.0	0.0003	0.0	0.0	0.0003	0.0	0.0	0.0	0.0				
STA AV	0.0	0.0	0.0	0.131	0.007	0.015	0.004	0.534	0.0	0.008	0.0	0.0				

NOTES: To convert mean daily discharge in CFS to I#/#DAY, multiply by 3.449515. Records began January 1966. STA AV based on 7 yr record period.

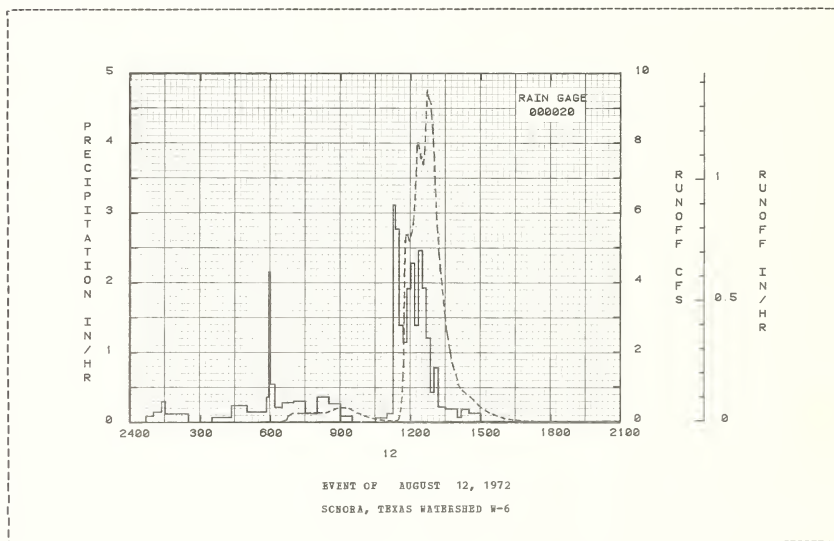
1972 SELECTED RUNOFF EVENT												SONORA, TEXAS WATERSHED #6											
ANTICEDENT CONDITIONS						RAINFALL						RUNOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		Date	Time	Rate	Acc.		Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(cfs)	(inches)			
EVENT OF AUGUST 12, 1972																							
RG 000020						RG 000020																	
8-12	0.0	0.0	8-12	10	0.0	0.0	8-12	626	0.0	0.0													
				40	0.0	0.0		628	0.001	0.0													
				100	0.0900	0.03		630	0.018	0.0													
				120	0.1500	0.08		632	0.034	0.0001													
				130	0.3000	0.13		636	0.049	0.0005													
WATERSHED CONDITIONS:																							
100% rangeland; range in																							
poor condition.																							
				200	0.1200	0.19		640	0.063	0.0010													
				230	0.1200	0.25		642	0.087	0.0014													
				330	0.0	0.25		644	0.131	0.0019													
				420	0.0720	0.31		646	0.169	0.0027													
				440	0.2400	0.39		648	0.194	0.0035													
				500	0.2400	0.47		652	0.222	0.0055													
				550	0.1440	0.59		657	0.247	0.0084													
				555	0.3600	0.62		722	0.247	0.0231													
				600	2.1599	0.80		742	0.266	0.0355													
				610	0.5400	0.89		752	0.266	0.0418													
				630	0.2100	0.96		812	0.256	0.0544													
				700	0.2800	1.10		822	0.260	0.0605													
				730	0.3000	1.25		832	0.308	0.0674													
				800	0.1200	1.31		842	0.350	0.0753													
				830	0.3600	1.49		852	0.400	0.0841													
				900	0.2600	1.62		902	0.411	0.0939													
				930	0.0800	1.66		912	0.411	0.1038													
				1030	0.0	1.66		922	0.376	0.1131													
				1100	0.0600	1.69		932	0.315	0.1215													
				1115	0.1200	1.72		942	0.253	0.1284													
				1120	3.1201	1.98		952	0.216	0.1339													
				1130	2.7599	2.44		1002	0.165	0.1385													
				1140	1.3801	2.67		1012	0.129	0.1420													
				1150	1.1399	2.86		1022	0.099	0.1447													
				1200	1.9200	3.18		1032	0.075	0.1466													

1972 SELECTED RUNOFF EVENT				SCNORA, TEXAS WATERSHED W-6			
ANTICIPEDENT CONDITIONS			RAINFALL		RUNOFF		
Date	Rainfall	Runoff	Date	Time	Date	Time	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	No-Day	of Day	(inches)
EVENT OF AUGUST 12, 1972 (CONTINUED)							
8-12	1210	2.2800	3.56	8-12	1042	0.055	0.1488
	1220	1.3800	3.79		1052	0.004	0.1495
	1230	2.4500	4.20		1102	0.031	0.1504
	1240	1.9200	4.52		1112	0.024	0.1511
	1250	1.2000	4.72		1122	0.016	0.1516
	1300	0.8200	4.79		1124	0.024	0.1517
	1310	0.7800	4.92		1126	0.037	0.1518
	1330	0.2100	4.99		1128	0.055	0.1520
	1400	0.1800	5.08		1130	0.094	0.1524
	1410	0.0601	5.09		1132	0.176	0.1530
	1430	0.1800	5.15		1138	0.289	0.1542
	1500	0.1200	5.21		1136	0.402	0.1558
					1138	0.722	0.1586
					1140	1.282	0.1631
					1142	1.793	0.1709
					1143	2.982	0.1763
					1144	4.238	0.1844
					1146	4.997	0.2077
					1148	5.371	0.2310
					1152	5.371	0.2823
					1156	5.191	0.3327
					1200	5.328	0.3859
					1204	5.510	0.4376
					1208	5.931	0.4922
					1210	6.236	0.5195
					1212	6.763	0.5523
					1214	7.281	0.5838
					1216	7.831	0.6220
					1218	8.033	0.6576
					1220	8.001	0.6981
					1222	7.831	0.7337
					1226	7.548	0.8071
					1228	7.600	0.8454
					1232	7.373	0.9169
					1234	7.538	0.9546
					1236	7.915	0.9893
					1238	8.423	1.0306
					1240	8.914	1.0655
					1242	9.524	1.1161
					1247	9.268	1.2269
					1252	9.107	1.3352
					1254	8.678	1.3801
					1256	8.412	1.4185
					1258	8.043	1.4601
					1300	7.642	1.4997
					1302	6.970	1.5325
					1304	6.463	1.5664
					1306	5.940	1.5943
					1309	5.432	1.6358
					1311	5.098	1.6594
					1312	4.807	1.6733
					1316	4.401	1.7172
					1320	3.931	1.7570
					1324	3.456	1.7923
					1328	3.041	1.8233
					1332	2.613	1.8503
					1336	2.356	1.8740
					1340	2.067	1.8951
					1344	1.830	1.9137
					1348	1.619	1.9302
					1352	1.487	1.9450
					1356	1.348	1.9585
					1400	1.198	1.9714
					1402	1.056	1.9765
					1407	0.959	1.9884
					1412	0.850	1.9998
					1422	0.797	2.0197
					1432	0.714	2.0379
					1442	0.610	2.0539
					1452	0.494	2.0669
					1502	0.394	2.0776
					1512	0.319	2.0862
					1522	0.252	2.0929
					1532	0.207	2.0984
					1542	0.164	2.1029

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.143730.

1972 SELECTED RUNOFF EVENT			SCHORA, TEXAS WATERSHED W-6									
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date		Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 12, 1972 (CONTINUED)												
							8-12	1552	0.116	2.1062		
								1602	0.085	2.1086		
								1612	0.065	2.1104		
								1622	0.049	2.1117		
								1632	0.036	2.1127		
								1642	0.027	2.1135		
								1652	0.016	2.1140		
								1702	0.013	2.1144		
								1712	0.008	2.1147		
								1722	0.002	2.1148		
								1732	0.002	2.1148		
								1802	0.001	2.1149		
								2400	0.001	2.1158		

NOTES: To convert runoff in CFS to IS/HR, multiply by 0.143730.



SONORA, TEXAS WATERSHED W-7

LOCATION: Sutton County, Texas; 10 mi. NE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 12.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												SONORA, TEXAS WATERSHED W-7											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972	P 0.30	0.12	0.33	0.96	3.78	1.49	1.59	8.29	1.43	4.08	0.26	0.0	22.63										
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.043	0.0	0.006	0.0	0.0	0.049										
STA AV	P 0.55	1.16	0.89	2.33	2.85	1.81	1.77	2.85	2.54	2.30	1.14	0.76	20.95										
	Q 0.0	0.0	0.0	0.020	0.075	0.094	0.004	0.007	0.008	0.001	0.0	0.002	0.210										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge				1 Hour				2 Hours				Maximum Volume for Selected Time Interval				1 Day				2 Days			
Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1972	8-12	0.058	8-12	0.036	8-12	0.040	8-12	0.042	8-12	0.042	8-12	0.042	8-12	0.043	10-15	0.043	10-13	0.043	10-13	0.043	10-13	0.043	1967
MAXIMUMS FOR PERIOD OF RECORD																							
	6-2	0.910	6-2	0.570	6-2	0.660	6-2	0.660	6-2	0.660	6-2	0.730	6-2	0.730	6-2	0.730	6-2	0.730	6-2	0.730	6-2	0.730	1967

NOTES: Watershed conditions: Rangeland - 100%; range condition - high fair. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.13-6. Precipitation data from rain gage 1. Precipitation and runoff records began January 1965. For long-time precipitation records, see National Weather Service records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1972 DAILY PRECIPITATION (inches)												SONORA, TEXAS WATERSHED W-7											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.0	0.0	0.22E	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
3	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	1.24	0.0	0.0	0.0											
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0											
6	0.0	0.0	0.0	0.0	2.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
7	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0											
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.53	0.0	0.0	0.0	0.0											
10	0.0	0.0	0.0	0.0	0.24E	0.0	0.0	1.43	0.0	0.0	0.0	0.0											
11	0.0	0.12E	0.0	0.0	0.0	0.25E	0.0	0.65	0.0	0.0	0.0	0.0											
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.88	0.0	0.0	0.0	0.0											
13	0.0	0.0	0.0	0.0	0.33	0.0	0.05E	0.29	0.0	0.0	0.0	0.0											
14	0.0	0.0	0.0	0.0	0.18E	0.32	0.0	0.0	0.0	0.0	0.0	0.0											
15	0.0	0.0	0.0	0.36	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0											
16	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.0											
17	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.21E	0.0	0.0	0.0	0.0											
18	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.07E	0.0											
19	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
20	0.0	0.0	0.25	0.60	0.0	0.0	0.45	0.0	0.0	0.0	0.05E	0.0											
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.25	3.20	0.08E	0.0											
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0											
23	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.11E	0.0											
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
28	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
29	0.11E	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
31	0.0	0.0	0.0	0.0	0.0	0.0	0.20E	0.0	0.0	0.15E	0.0	0.0											
TOTAL	0.30	0.12	0.33	0.96	3.78	1.49	1.59	8.29	1.43	4.08	0.26	0.0											
STA AV	0.55	1.16	0.89	2.33	2.85	1.81	1.77	2.85	2.54	2.30	1.14	0.76											

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70.001-1. Precipitation data obtained from rain gage 1. Records began January 1965. STA AV based on 8 yr record period. Estimate codes may indicate that non-significant event totals are included.

1972	MEAN DAILY DISCHARGE (cfs)					SONORA, TEXAS WATERSHED W-7							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.022	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0007	0.0	0.0001	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0005	0.0	0.0	
STA AV	0.0	0.0	0.0	0.020	0.075	0.094	0.004	0.007	0.008	0.001	0.0	0.002	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.950955. Records began January 1965. STA AV based on 6 yr record period.

TREYNOR, IOWA WATERSHED 1

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri River Basin. Lat. 41 deg. 09 min. 51 sec. N.; Long. 95 deg. 38 min. 30 sec. W.

AREA: 74.50 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TREYNOR, IOWA WATERSHED 1									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual									
1972	P	0.16	0.27	0.56	4.86	5.73	0.99	4.72	1.62	6.99	4.01	2.60	0.98	33.49									
	Q	0.124	0.200	0.183	0.212	1.347	0.229	0.248	0.138	0.426	0.216	0.402	0.486	4.211									
STA AV	P	0.46	0.55	0.81	3.27	4.76	6.05	3.85	3.48	4.36	3.18	1.35	0.88	33.00									
	Q	0.287	0.521	0.503	0.322	1.107	2.044	0.362	0.422	0.523	0.287	0.248	0.245	6.871									
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
		Maximum Discharge				Maximum Volume for Selected Time Interval																	
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.						
1972		5- 5	1.969	5- 5	0.463	5- 5	0.598	5- 5	0.612	5- 5	0.623	5- 5	0.856	5- 5	0.909	5- 5	1.037						
MAXIMUMS FOR PERIOD OF RECORD																							
		6-20	5.835	6-20	3.150	6-20	4.160	6-20	4.224	6-20	4.232	6-20	4.246	6-20	4.264	6- 4	5.979						
		1967		1967		1967		1967		1967		1967		1967		1967							

NOTES: Watershed conditions: 0.33 contoured corn; 78 gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after October 31; Thiessen average of gages 116, 117, 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 10, 1964. January 1 to February 10, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.1-5. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1972 DAILY PRECIPITATION (inches)										TREYNOR, IOWA WATERSHED 1									
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
1	0.0	0.08	0.0	0.0	0.30	0.0	0.07	0.10	0.33	0.0	0.57	0.0	0.0						
2	0.0	0.09	0.0	0.0	0.0	0.0	0.05	0.0	0.04	0.0	0.0	0.0	0.0						
3	0.0	0.0	0.05	0.0	0.09	0.0	0.0	0.15	0.0	0.01	0.0	0.0	0.0						
4	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.16	0.0	0.0	0.0						
5	0.0	0.0	0.0	0.0	0.0	1.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
6	0.0	0.0	0.0	0.0	0.0	1.18	0.0	0.52	0.0	0.0	0.0	0.31	0.0						
7	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.09	0.0	0.0	0.0						
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0						
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0						
10	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.57	0.0	0.51	0.0	0.0	0.0						
11	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	3.41	0.0	0.0	0.0	0.07						
12	0.0	0.0	0.02	0.0	0.26	0.0	0.0	0.0	1.07	0.0	0.07	0.0	0.49						
13	0.0	0.0	0.0	0.0	0.0	0.33	0.35	0.0	0.03	0.0	0.80	0.0	0.0						
14	0.0	0.0	0.16	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
15	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
16	0.0	0.10	0.0	0.35	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0						
17	0.0	0.0	0.14	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0						
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
19	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
20	0.0	0.0	0.05	1.21	0.0	0.0	0.0	0.0	0.07	0.36	0.0	0.0	0.0						
21	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.23	0.0	0.05	0.0	0.0	0.0						
22	0.0	0.18	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.25	0.0	0.0	0.0						
23	0.02	0.0	0.0	0.0	0.59	0.0	0.0	0.17	0.0	0.02	0.0	0.0	0.0						
24	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.28	0.0	0.10	0.0	0.0						
25	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.65	0.39	0.0	0.26	0.0	0.0						
26	0.0	0.0	0.0	0.69	0.0	1.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
27	0.0	0.0	0.04	1.12	0.17	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
28	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
29	0.0	0.0	0.03	0.47	0.0	0.0	0.0	0.21	0.0	0.12	0.0	0.12	0.0						
30	0.0	0.10	0.49	0.0	0.0	0.0	0.0	0.10	0.0	1.06	0.0	0.30	0.0						
31	0.0	0.0	0.0	0.0	0.0	0.12	0.06	0.0	0.16	0.0	0.0	0.0	0.0						
TOTAL		0.16	0.27	0.56	4.86	5.73	0.99	4.72	1.62	6.99	4.01	2.60	0.98						
STA AV		0.46	0.55	0.81	3.27	4.76	6.05	3.85	3.48	4.36	3.18	1.35	0.88						

NOTES: Daily precipitation amounts are from rain gage 117 before April 1 and after October 31; Thiessen weighted average values from stations 116, 117, and 118 for remainder of year. STA AV based on 9 yr record period.

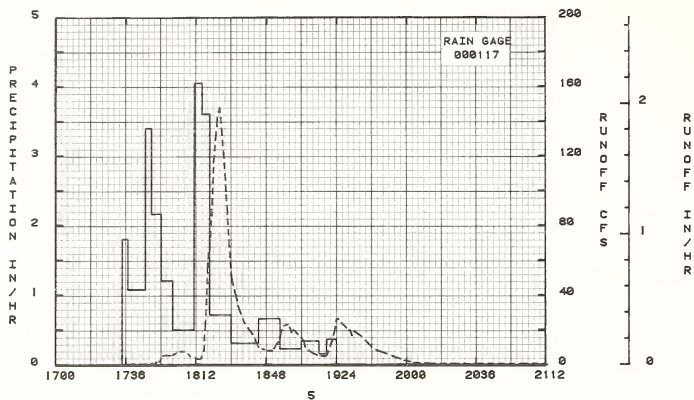
1972 BEAN DAILY DISCHARGE (cfs)													TEENYNOE, IOWA WATERSHED 1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.014	0.018	0.016	0.018	0.050	0.029	0.017	0.017	0.017	0.018	0.045	0.047	1	0.014	0.018	0.016	0.018	0.050	0.029	0.017	0.017	0.017	0.018	0.045	0.047
2	0.014	0.014	0.018	0.015	0.033	0.032	0.015	0.014	0.017	0.014	0.035	0.047	2	0.014	0.014	0.018	0.015	0.033	0.032	0.015	0.014	0.017	0.014	0.035	0.047
3	0.012	0.014	0.021	0.015	0.032	0.032	0.014	0.016	0.014	0.014	0.032	0.047	3	0.012	0.014	0.021	0.015	0.032	0.032	0.014	0.016	0.014	0.014	0.032	0.047
4	0.011	0.014	0.019	0.012	0.029	0.033	0.015	0.016	0.014	0.016	0.032	0.047	4	0.011	0.014	0.019	0.012	0.029	0.033	0.015	0.016	0.014	0.014	0.032	0.047
5	0.012	0.018	0.020	0.014	0.033	0.022	0.016	0.014	0.014	0.014	0.032	0.044	5	0.012	0.018	0.020	0.014	0.033	0.022	0.016	0.014	0.014	0.014	0.032	0.044
6	0.014	0.014	0.022	0.013	0.057	0.020	0.025	0.014	0.014	0.016	0.037	0.040	6	0.014	0.014	0.022	0.013	0.057	0.020	0.025	0.014	0.014	0.016	0.037	0.040
7	0.013	0.014	0.017	0.014	0.103	0.020	0.019	0.013	0.012	0.014	0.032	0.038	7	0.013	0.014	0.017	0.014	0.103	0.020	0.019	0.013	0.012	0.014	0.032	0.038
8	0.014	0.014	0.018	0.015	0.099	0.020	0.018	0.016	0.010	0.014	0.032	0.038	8	0.014	0.014	0.018	0.015	0.099	0.020	0.018	0.016	0.010	0.014	0.032	0.038
9	0.014	0.014	0.019	0.014	0.077	0.020	0.018	0.014	0.011	0.014	0.041	0.038	9	0.014	0.014	0.019	0.014	0.077	0.020	0.018	0.014	0.011	0.014	0.041	0.038
10	0.014	0.014	0.019	0.012	0.062	0.020	0.039	0.013	0.033	0.014	0.034	0.035	10	0.014	0.014	0.019	0.012	0.062	0.020	0.039	0.013	0.033	0.014	0.034	0.035
11	0.014	0.016	0.021	0.012	0.060	0.020	0.024	0.013	0.403	0.014	0.032	0.032	11	0.014	0.016	0.021	0.012	0.060	0.020	0.024	0.013	0.403	0.014	0.032	0.032
12	0.014	0.017	0.020	0.012	0.065	0.045	0.020	0.013	0.436	0.014	0.033	0.032	12	0.014	0.017	0.020	0.012	0.065	0.045	0.020	0.013	0.436	0.014	0.033	0.032
13	0.014	0.019	0.020	0.011	0.051	0.029	0.027	0.013	0.029	0.014	0.052	0.032	13	0.014	0.019	0.020	0.011	0.051	0.029	0.027	0.013	0.029	0.014	0.052	0.032
14	0.014	0.019	0.023	0.011	0.047	0.030	0.023	0.013	0.025	0.017	0.044	0.032	14	0.014	0.019	0.023	0.011	0.047	0.030	0.023	0.013	0.025	0.017	0.044	0.032
15	0.014	0.017	0.022	0.014	0.049	0.023	0.021	0.012	0.025	0.020	0.038	0.032	15	0.014	0.017	0.022	0.014	0.049	0.023	0.021	0.012	0.025	0.020	0.038	0.032
16	0.013	0.069	0.018	0.019	0.044	0.025	0.019	0.012	0.021	0.020	0.040	0.032	16	0.013	0.069	0.018	0.019	0.044	0.025	0.019	0.012	0.021	0.020	0.040	0.032
17	0.012	0.041	0.022	0.012	0.047	0.025	0.025	0.012	0.018	0.017	0.044	0.032	17	0.012	0.041	0.022	0.012	0.047	0.025	0.025	0.012	0.018	0.017	0.044	0.032
18	0.014	0.027	0.020	0.010	0.041	0.025	0.021	0.012	0.018	0.014	0.047	0.032	18	0.014	0.027	0.020	0.010	0.041	0.025	0.021	0.012	0.018	0.014	0.047	0.032
19	0.012	0.025	0.020	0.017	0.042	0.025	0.018	0.012	0.014	0.014	0.047	0.032	19	0.012	0.025	0.020	0.017	0.042	0.025	0.018	0.012	0.014	0.014	0.047	0.032
20	0.012	0.027	0.020	0.037	0.036	0.023	0.016	0.011	0.014	0.020	0.047	0.032	20	0.012	0.027	0.020	0.037	0.036	0.023	0.016	0.011	0.014	0.020	0.047	0.032
21	0.013	0.026	0.017	0.093	0.033	0.023	0.013	0.015	0.014	0.017	0.047	0.032	21	0.013	0.026	0.017	0.093	0.033	0.023	0.013	0.015	0.014	0.017	0.047	0.032
22	0.014	0.022	0.016	0.021	0.033	0.023	0.016	0.014	0.015	0.051	0.047	0.034	22	0.014	0.022	0.016	0.021	0.033	0.023	0.016	0.014	0.015	0.051	0.047	0.034
23	0.014	0.022	0.017	0.019	0.045	0.020	0.019	0.016	0.014	0.029	0.047	0.032	23	0.014	0.022	0.017	0.019	0.045	0.020	0.019	0.016	0.014	0.029	0.047	0.032
24	0.013	0.021	0.015	0.019	0.036	0.019	0.023	0.014	0.017	0.025	0.051	0.032	24	0.013	0.021	0.015	0.019	0.036	0.019	0.023	0.014	0.017	0.025	0.051	0.032
25	0.010	0.020	0.018	0.015	0.036	0.021	0.021	0.022	0.029	0.025	0.056	0.032	25	0.010	0.020	0.018	0.015	0.036	0.021	0.021	0.022	0.029	0.025	0.056	0.032
26	0.008	0.022	0.020	0.029	0.052	0.020	0.199	0.014	0.019	0.025	0.048	0.035	26	0.008	0.022	0.020	0.029	0.052	0.020	0.199	0.014	0.019	0.025	0.048	0.035
27	0.007	0.025	0.017	0.080	0.048	0.022	0.017	0.013	0.014	0.025	0.047	0.040	27	0.007	0.025	0.017	0.080	0.048	0.022	0.017	0.013	0.014	0.025	0.047	0.040
28	0.008	0.026	0.013	0.029	0.038	0.017	0.016	0.013	0.014	0.024	0.047	0.133	28	0.008	0.026	0.013	0.029	0.038	0.017	0.016	0.013	0.014	0.024	0.047	0.133
29	0.011	0.024	0.016	0.025	0.068	0.016	0.015	0.013	0.014	0.021	0.047	0.050	29	0.011	0.024	0.016	0.025	0.068	0.016	0.015	0.013	0.014	0.021	0.047	0.050
30	0.011		0.016	0.038	0.035	0.015	0.014	0.014	0.017	0.054	0.047	0.279	30	0.011		0.016	0.038	0.035	0.015	0.014	0.014	0.017	0.054	0.047	0.279
31	0.013		0.014		0.029		0.015	0.014		0.032		0.042	31	0.013		0.014		0.029		0.015	0.014		0.032		0.042
MEAN	0.0125	0.0215	0.0185	0.0221	0.1360	0.0239	0.0251	0.0139	0.0445	0.0218	0.0420	0.0451	MEAN	0.0125	0.0215	0.0185	0.0221	0.1360	0.0239	0.0251	0.0139	0.0445	0.0218	0.0420	0.0451
INCHES	0.124	0.200	0.183	0.212	1.347	0.229	0.248	0.138	0.426	0.216	0.402	0.486	INCHES	0.124	0.200	0.183	0.212	1.347	0.229	0.248	0.138	0.426	0.216	0.402	0.486
STA AV	0.287	0.521	0.503	0.322	1.107	2.044	0.362	0.422	0.523	0.287	0.448	0.485	STA AV	0.287	0.521	0.503	0.322	1.107	2.044	0.362	0.422	0.523	0.287	0.448	0.485

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.31949. STA AV based on 9 yr record period.

1972 SELECTED RUNOFF EVENT												TEENYNOE, IOWA WATERSHED 1											
RAINFALL						RUNOFF						RAINFALL						RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)				
EVENT OF MAY 5, 1972																							
EG 000117																							
5- 5	0.17	0.007	5- 5	1734	0.0	0.0	5- 5	1735	0.038	0.0		5- 5	1735	0.038	0.0	5- 5	1735	0.038	0.0				
				1737	1.8004	0.09		1737	0.076	0.0			1737	0.076	0.0			0.076	0.0				
				1746	1.0666	0.25		1746	0.101	0.0			1746	0.101	0.0			0.101	0.0				
				1749	3.3958	0.42		1749	0.167	0.0001			1749	0.167	0.0001			0.167	0.0001				
				1754	2.1601	0.60		1754	0.167	0.0002			1754	0.167	0.0002			0.167	0.0002				
WATERSHED CONDITIONS:																							
93% tilled, ready for corn				1800	1.1999	0.72		1800	0.208	0.0004			1800	0.208	0.0004			0.208	0.0004				
planting; 7% gullies and				1811	0.4909	0.81		1811	0.427	0.0005			1811	0.427	0.0005			0.427	0.0005				
grassed waterways, grass				1815	4.0451	1.08		1815	0.710	0.0006			1815	0.710	0.0006			0.710	0.0006				
3-6 in. tall.				1819	3.6001	1.32		1819	0.969	0.0008			1819	0.969	0.0008			0.969	0.0008				
				1830	0.7051	1.45		1830	1.210	0.0010			1830	1.210	0.0010			1.210	0.0010				
				1844	0.3000	1.52		1844	1.650	0.0013			1844	1.650	0.0013			1.650	0.0013				
				1855	0.6545	1.64		1855	2.871	0.0018			1855	2.871	0.0018			2.871	0.0018				
				1906	0.2182	1.68		1906	5.082	0.0027			1906	5.082	0.0027			5.082	0.0027				
				1915	0.3333	1.73		1915	5.462	0.0050			1915	5.462	0.0050			5.462	0.0050				
				1919	0.1500	1.74		1919	5.082	0.0062			1919	5.082	0.0062			5.082	0.0062				
				1924	0.3600	1.77		1924	5.082	0.0073			1924	5.082	0.0073			5.082	0.0073				
								1800	5.462	0.0085			1800	5.462	0.0085			5.462	0.0085				
								1802	6.562	0.0112			1802	6.562	0.0112			6.562	0.0112				
								1804	7.442	0.0143			1804	7.442	0.0143			7.442	0.0143				
								1806	7.442	0.0176			1806	7.442	0.0176			7.442	0.0176				
								1808	6.022	0.0206			1808	6.022	0.0206			6.022	0.0206				
								1809	4.411	0.0218			1809	4.411	0.0218			4.411	0.0218				
								1812	3.511	0.0244			1812	3.511	0.0244			3.511	0.0244				
								1813	2.981	0.0251			1813	2.981	0.0251			2.981	0.0251				
								1814	2.981	0.0258			1814	2.981	0.0258			2.981	0.0258				
								1815	4.712	0.0267			1815	4.712	0.0267			4.712	0.0267				
								1816	7.873	0.0281			1816	7.873	0.0281			7.873	0.0281				
								1817	25.538	0.0318			1817	25.538	0.0318			25.538	0.0318				
								1818	58.310	0.0411			1818	58.310	0.0411			58.310	0.0411				
								1819	67.442	0.0552			1819	67.442	0.0552			67.442	0.0552				

1972 SELECTED RUNOFF EVENT						TEETSON, ICWA WATERSHED 1					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF MAY 5, 1972 (CONTINUED)											
							5- 5	1820	86.328	0.0722	
								1821	117.038	0.0947	
								1822	131.143	0.1221	
								1823	142.457	0.1528	
								1824	147.899	0.1849	
								1825	134.894	0.2161	
								1826	121.640	0.2444	
								1827	106.035	0.2699	
								1828	86.328	0.2912	
								1829	67.442	0.3082	
								1830	51.267	0.3215	
								1831	45.410	0.3322	
								1832	41.084	0.3418	
								1833	36.542	0.3504	
								1834	31.260	0.3580	
								1835	28.815	0.3646	
								1836	25.538	0.3706	
								1837	23.423	0.3760	
								1839	20.171	0.3857	
								1841	17.191	0.3940	
								1843	12.434	0.4006	
								1844	9.743	0.4031	
								1846	6.733	0.4072	
								1847	8.302	0.4091	
								1849	7.873	0.4127	
								1851	7.873	0.4162	
								1852	9.243	0.4181	
								1854	12.729	0.4230	
								1855	15.525	0.4261	
								1856	19.797	0.4300	
								1857	22.158	0.4347	
								1859	22.997	0.4447	
								1900	21.307	0.4497	
								1901	18.286	0.4541	
								1902	19.797	0.4583	
								1904	17.526	0.4666	
								1907	13.604	0.4769	
								1908	9.999	0.4795	
								1910	7.873	0.4834	
								1911	7.013	0.4850	
								1912	6.397	0.4865	
								1914	5.272	0.4891	
								1916	4.712	0.4913	
								1918	4.411	0.4933	
								1919	4.896	0.4943	
								1920	7.442	0.4957	
								1921	11.264	0.4978	
								1922	13.900	0.5006	
								1923	18.661	0.5043	
								1924	26.008	0.5092	
								1925	26.008	0.5149	
								1927	22.997	0.5258	
								1929	20.927	0.5355	
								1931	19.416	0.5445	
								1932	16.525	0.5485	
								1933	19.036	0.5524	
								1937	15.860	0.5679	
								1940	12.144	0.5772	
								1942	9.999	0.5821	
								1945	7.658	0.5880	
								1950	6.022	0.5956	
								1953	4.411	0.5991	
								1957	2.981	0.6024	
								1959	2.160	0.6035	
								2002	1.351	0.6047	
								2004	0.757	0.6052	
								2007	0.577	0.6056	
								2015	0.364	0.6064	
								2027	0.254	0.6072	
								2037	0.167	0.6077	
								2100	0.132	0.6085	
								2120	0.116	0.6091	
								2148	0.101	0.6098	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01331. Event precipitation totals for rain gages 116 and 118 are 1.45 and 1.49 in., respectively and Thiessen weighted average total for event is 1.60 in.



EVENT OF MAY 5, 1972
TREYNOR, IOWA WATERSHED 1

TREYNOR, IOWA WATERSHED 2

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Keg Creek, Missouri River Basin.
Lat. 41 deg. 10 min. 10 sec. N.; Long. 95 deg. 39 min. 00 sec. W.

AREA: 82.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TREYNOR, IOWA WATERSHED 2													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1972	P	0.16	0.27	0.56	4.76	5.71	0.95	4.57	1.64	7.33	3.98	2.60	0.98	33.51													
	Q	0.156	0.185	0.190	0.199	1.054	0.239	0.255	0.235	0.519	0.306	0.460	0.734	4.534													
STA AV	P	0.46	0.55	0.87	3.23	4.70	6.01	3.75	3.37	4.43	3.16	1.36	0.88	32.79													
	Q	0.311	0.603	0.551	0.306	0.901	1.922	0.308	0.382	0.499	0.301	0.248	0.274	6.606													
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge												Maximum Volume for Selected Time Interval													
		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1972		5-5	1.450	5-5	0.318	5-5	0.415	5-5	0.423	5-5	0.433	5-5	0.675	5-5	0.705	5-5	0.792										
MAXIMUMS FOR PERIOD OF RECORD																											
		6-20	4.866	6-20	2.701	6-20	3.693	6-20	3.780	6-20	3.786	6-20	3.796	6-20	3.810	6-4	5.531										
		1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967										

NOTES: Watershed conditions: 93% contoured corn; 7% gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after October 31; Thiesen average of rain gages 115, 116, and 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 3, 1964. January 1 to February 3, 1964 runoff estimated and included in average. For daily air temperature, see the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.2-5. For long-time precipitation records, see National Weather Service records period at Omaha, Nebraska.

1972 DAILY PRECIPITATION (inches)													TREYNOR, IOWA WATERSHED 2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.08	0.0	0.0	0.26	0.0	0.11	0.10	0.30	0.0	0.57	0.0													
2	0.0	0.09	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0	0.0													
3	0.0	0.05	0.11	0.0	0.0	0.14	0.0	0.0	0.0	0.01	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.16	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	1.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	1.22	0.0	0.59	0.0	0.0	0.0	0.31	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.09	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0													
10	0.0	0.0	0.0	0.0	0.05	0.0	0.80	0.0	1.03	0.0	0.0	0.0													
11	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	3.73	0.0	0.0	0.07													
12	0.0	0.0	0.02	0.0	0.26	0.0	0.0	0.0	1.04	0.0	0.07	0.49													
13	0.0	0.0	0.0	0.0	0.0	0.34	0.42	0.0	0.03	0.0	0.80	0.0													
14	0.0	0.16	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.10	0.0	0.32	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.14	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
19	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.05	1.15	0.0	0.0	0.0	0.0	0.04	0.38	0.0	0.0													
21	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.25	0.0	0.05	0.0	0.0													
22	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	2.27	0.0	0.0													
23	0.02	0.0	0.0	0.0	0.61	0.0	0.0	0.20	0.0	0.03	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.29	0.0	0.10	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.64	0.37	0.0	0.26	0.0													
26	0.0	0.0	0.0	0.66	0.70	0.0	1.83	0.0	0.0	0.0	0.0	0.0													
27	0.0	0.0	0.04	1.12	0.16	0.17	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
29	0.0	0.0	0.0	0.02	0.54	0.0	0.0	0.0	0.21	0.0	0.0	0.12													
30	0.0	0.10	0.48	0.0	0.0	0.0	0.0	0.10	0.0	1.07	0.0	0.30													
31	0.0		0.0		0.0		0.11	0.04		0.17		0.0													
TOTAL	0.16	0.27	0.56	4.76	5.71	0.55	4.57	1.64	7.33	3.58	2.60	0.98													
STA AV	0.46	0.55	0.87	3.23	4.70	6.01	3.75	3.37	4.43	3.16	1.36	0.88													

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 115, 116, and 118 for period of April 1 through October 31, and from station 117 for remainder of year. STA AV based on 9 yr record period.

1972		MEAN DAILY DISCHARGE (cfs)					TREYNOE, IOWA WATERSHED 2						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.017	0.020	0.023	0.019	0.038	0.028	0.021	0.030	0.029	0.028	0.059	0.055	
2	0.017	0.022	0.023	0.018	0.026	0.025	0.021	0.027	0.028	0.028	0.042	0.055	
3	0.017	0.020	0.021	0.020	0.024	0.027	0.020	0.029	0.027	0.031	0.039	0.054	
4	0.017	0.019	0.020	0.016	0.024	0.031	0.020	0.027	0.030	0.030	0.039	0.055	
5	0.017	0.018	0.020	0.016	1.492	0.029	0.020	0.027	0.026	0.030	0.039	0.051	
6	0.017	0.017	0.023	0.017	0.948	0.030	0.029	0.025	0.023	0.030	0.056	0.047	
7	0.017	0.017	0.020	0.015	0.045	0.032	0.020	0.027	0.025	0.030	0.047	0.047	
8	0.020	0.017	0.018	0.016	0.045	0.030	0.020	0.030	0.022	0.030	0.043	0.047	
9	0.018	0.017	0.018	0.016	0.053	0.028	0.019	0.027	0.022	0.030	0.061	0.045	
10	0.018	0.017	0.019	0.017	0.055	0.029	0.034	0.027	0.041	0.028	0.050	0.043	
11	0.018	0.017	0.021	0.017	0.050	0.030	0.024	0.026	0.025	0.027	0.047	0.043	
12	0.017	0.017	0.020	0.017	0.058	0.028	0.021	0.026	0.026	0.027	0.047	0.045	
13	0.017	0.018	0.023	0.017	0.049	0.035	0.027	0.025	0.027	0.027	0.067	0.047	
14	0.017	0.021	0.024	0.017	0.047	0.036	0.021	0.025	0.026	0.027	0.062	0.047	
15	0.017	0.022	0.022	0.019	0.044	0.029	0.020	0.025	0.024	0.027	0.055	0.047	
16	0.017	0.067	0.022	0.023	0.044	0.030	0.018	0.023	0.020	0.027	0.055	0.047	
17	0.018	0.028	0.024	0.017	0.038	0.030	0.025	0.020	0.020	0.027	0.055	0.047	
18	0.021	0.022	0.023	0.016	0.036	0.026	0.023	0.021	0.019	0.027	0.055	0.047	
19	0.019	0.022	0.022	0.026	0.036	0.027	0.020	0.021	0.019	0.027	0.055	0.047	
20	0.019	0.021	0.023	0.038	0.037	0.029	0.022	0.020	0.019	0.034	0.055	0.045	
21	0.018	0.020	0.025	0.052	0.034	0.027	0.024	0.028	0.015	0.030	0.055	0.043	
22	0.017	0.022	0.022	0.023	0.031	0.027	0.025	0.027	0.016	0.100	0.055	0.043	
23	0.017	0.022	0.020	0.020	0.046	0.025	0.025	0.030	0.016	0.044	0.055	0.043	
24	0.017	0.020	0.019	0.020	0.034	0.027	0.028	0.027	0.018	0.036	0.062	0.043	
25	0.017	0.022	0.020	0.018	0.031	0.025	0.030	0.044	0.042	0.033	0.070	0.043	
26	0.017	0.022	0.022	0.027	0.045	0.024	0.164	0.027	0.032	0.033	0.056	0.041	
27	0.017	0.023	0.022	0.069	0.040	0.023	0.033	0.025	0.032	0.033	0.055	0.041	
28	0.017	0.026	0.021	0.030	0.033	0.022	0.031	0.024	0.030	0.033	0.055	0.370	
29	0.017	0.026	0.019	0.025	0.123	0.022	0.028	0.023	0.034	0.033	0.055	0.300	
30	0.017	0.021	0.030	0.033	0.030	0.020	0.025	0.025	0.030	0.070	0.055	0.566	
31	0.018	0.020	0.018	0.031	0.031	0.031	0.028	0.027	0.047	0.047	0.059		
MEAN	0.0176	0.0222	0.0213	0.0230	0.1183	0.0277	0.0286	0.0264	0.0602	0.0344	0.0534	0.0824	
INCHES	0.156	0.185	0.190	0.199	1.054	0.239	0.255	0.235	0.519	0.306	0.460	0.734	
STA 1V	0.311	0.603	0.551	0.306	0.901	1.922	0.308	0.382	0.459	0.301	0.248	0.274	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.28746. STA 1V based on 9 yr record period.

1972		SELECTED RUNOFF EVENT					TERRYNOE, IOWA WATERSHED 2					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 5, 1972												
RG 000115			RG 000115									
5- 5	0.18	0.006	5- 5	1736	0.0	0.0	5- 5	1741	0.064	0.0		
				1744	0.9750	0.13		1744	0.083	0.0		
				1748	2.2500	0.28		1746	0.116	0.0		
				1753	1.6798	0.42		1748	0.179	0.0001		
				1758	1.4401	0.54		1750	0.252	0.0002		
WATERSHED CONDITIONS:												
93% tilled ready for corn			1807 0.2000 0.57 1752 0.319 0.0003									
planting; 7% gullies and			1813 3.1998 0.89 1754 0.395 0.0004									
grassed waterways, grass			1819 1.8999 1.08 1756 0.453 0.0006									
3-6 in. tall.			1830 0.6595 1.20 1758 0.514 0.0008									
			1844 0.3000 1.27 1801 0.581 0.0011									
			1900 0.2625 1.34 1802 0.653 0.0012									
			1913 0.2769 1.40 1803 0.903 0.0014									
			1916 1.5999 1.48 1804 1.261 0.0016									
							1805 1.440 0.0019					
							1806 1.500 0.0022					
							1807 1.500 0.0025					
							1811 1.321 0.0036					
							1813 1.321 0.0041					
							1814 1.560 0.0044					
							1815 1.631 0.0047					
							1816 1.841 0.0050					
							1817 3.331 0.0055					
							1818 11.204 0.0069					
							1819 22.407 0.0103					
							1820 40.743 0.0166					
							1821 86.488 0.0292					
							1822 97.753 0.0475					
							1823 109.936 0.0685					
							1824 116.288 0.0910					
							1825 121.040 0.1146					

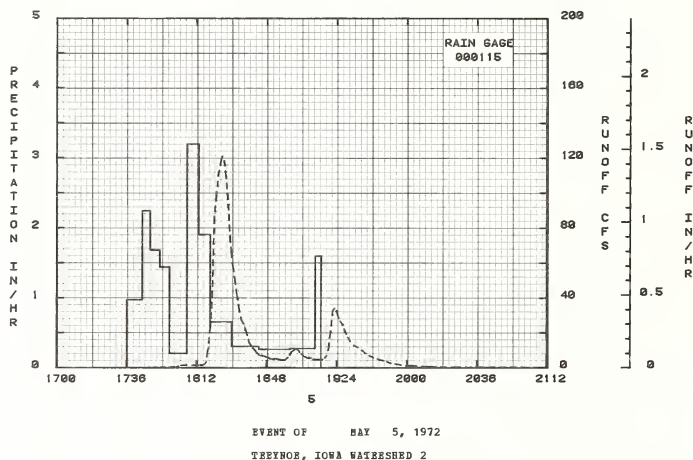
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01198. Event precipitation totals for rain gage 116 and 118 are 1.45 and 1.49 respectively, and Thiessen weighted average total for event is 1.48 in.

1972 SELECTED RUNOFF EVENT				TREYNOR, IOWA WATERSHED 2						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MAY 5, 1972 (CONTINUED)										
							5- 5	1826	118.189	0.1384
								1827	108.135	0.1612
								1828	96.121	0.1815
								1829	74.475	0.1985
								1830	62.936	0.2124
								1831	54.818	0.2241
								1832	47.461	0.2343
								1833	38.763	0.2429
								1834	31.620	0.2500
								1835	27.179	0.2558
								1836	24.928	0.2610
								1837	22.407	0.2657
								1838	18.526	0.2698
								1839	14.384	0.2731
								1840	12.404	0.2758
								1841	10.994	0.2781
								1844	7.203	0.2836
								1845	6.892	0.2850
								1846	6.582	0.2863
								1847	6.422	0.2876
								1848	5.797	0.2888
								1849	5.372	0.2899
								1850	4.957	0.2909
								1851	4.889	0.2919
								1852	4.957	0.2929
								1853	5.092	0.2939
								1854	4.681	0.2949
								1855	4.542	0.2958
								1857	4.271	0.2976
								1858	4.822	0.2985
								1859	5.797	0.2996
								1900	7.203	0.3009
								1901	9.103	0.3025
								1902	9.944	0.3044
								1903	10.784	0.3065
								1904	10.573	0.3087
								1905	8.723	0.3106
								1906	7.583	0.3122
								1907	6.737	0.3136
								1908	6.107	0.3149
								1909	5.507	0.3161
								1910	5.372	0.3172
								1911	5.507	0.3183
								1912	4.681	0.3193
								1917	4.681	0.3240
								1918	5.642	0.3250
								1919	6.892	0.3263
								1920	11.204	0.3281
								1921	21.087	0.3313
								1922	32.481	0.3366
								1923	34.192	0.3433
								1924	32.481	0.3499
								1925	28.349	0.3559
								1926	26.359	0.3613
								1927	24.568	0.3664
								1928	21.747	0.3710
								1929	19.107	0.3751
								1930	17.075	0.3788
								1931	14.905	0.3820
								1933	12.645	0.3875
								1935	11.444	0.3923
								1937	9.944	0.3966
								1939	8.153	0.4002
								1941	6.737	0.4032
								1943	5.642	0.4057
								1945	4.822	0.4078
								1948	3.922	0.4104
								1950	3.331	0.4119
								1952	2.541	0.4131
								1954	2.081	0.4140
								1957	1.500	0.4151
								2000	1.100	0.4159
								2005	0.859	0.4169
								2010	0.581	0.4176
								2015	0.395	0.4181

NOTES: To convert runoff in cfs to in/hr, multiply by 0.01198. Event precipitation totals for rain gage 116 and 118 are 1.45 and 1.49 respectively, and Thiessen weighted average total for event is 1.48 in.

1972 SELECTED RUNOFF EVENT						TEYNOE, IOWA WATERSHED 2				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 5, 1972 (CONTINUED)										
							5- 5	2025	0.252	0.4187
								2040	0.214	0.4194
								2100	0.187	0.4201
								2130	0.094	0.4208

NOTES: To convert runoff in cfs to in/hr, multiply by 0.01198. Event precipitation totals for rain gage 116 and 118 are 1.45 and 1.49 respectively, and Thiessen weighted average total for event is 1.48 in.



TREYNOE, IOWA WATERSHED 3

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Tregonor; Silver Creek, West Mishnabotna River, Missouri River Basin. Lat. 41 deg. 12 min. 36 sec. N.; Long. 95 deg. 38 min. 05 sec. W.

AREA: 107.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TREYNOR, IOWA WATERSHED 3												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
	P	0.17	0.24	0.48	4.55	6.83	3.17	4.62	1.63	7.23	4.06	2.99	1.0	36.98												
1972	Q	0.167	0.174	0.150	0.201	1.020	1.145	0.899	0.497	0.448	0.368	0.891	1.100	7.06												
STA AV	P	0.49	0.57	0.81	3.31	4.87	6.06	3.53	3.03	4.30	3.16	1.35	0.87	32.35												
	Q	0.249	0.500	0.483	0.293	0.463	0.803	0.413	0.275	0.291	0.331	0.300	0.317	4.717												
ANNUAL MAXIMUM DISCHARGE (in/hr) and MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																										
</																										

NOTES: Watershed conditions: 86% corn, conservation tillage; 14% grassed waterway, roads and farmstead. First year corn following permanent pasture. Precipitation: Arithmetic average of rain gages 113 and 114 before April 1 and after October 31; Thiessen average of gages 112, 113 and 114 for remainder of year. Precipitation records began January 1, 1964. Runoff records began January 2, 1964; January 1, 1964 runoff estimated and included in average. For topographic map of watershed, see hydrologic data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.3-4. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1972 DAILY AVE TEMPERATURE (degrees F)													TREYNOE, IOWA WATERSHED 3													
Day	Jan max min	Feb max min	Mar max min	Apr max min	May max min	Jun max min	Jul max min	Aug max min	Sep max min	Oct max min	Nov max min	Dec max min														
1	37 28	36 15	38 13	46 27	56 45	86 50	92 68	78 67	67 53	80 45	47 33	50 30														
2	39 25	32 12	30 8	59 22	58 45	91 60	76 58	82 66	70 52	84 55	71 34	53 16														
3	26 5	10 -6	-6 51	19 42	28 66	45 94	69 78	56 74	59 66	50 73	40 57	33 16														
4	12 5	10 -2	-2 26	6 62	22 67	44 80	66 70	51 77	53 74	59 78	50 61	30 12														
5	29 3	37 2	2 48	8 78	32 79	52 92	69 76	47 80	63 81	55 70	50 64	42 11														
6	45 17	13 -1	-1 75	42 94	48 58	45 91	68 81	53 78	60 84	64 60	41 47	41 6														
7	46 28	16 -6	-6 62	28 57	28 88	43 92	66 77	58 79	54 82	61 71	32 51	32 14														
8	45 31	14 -5	-5 38	18 44	24 61	45 88	77 85	68 73	56 88	73 82	45 30	14 0														
9	48 30	13 -8	-8 45	24 64	30 64	42 96	68 88	66 70	52 68	53 68	38 51	40 6														
10	44 26	19 9	9 54	25 78	39 59	46 68	52 92	68 84	56 84	64 72	53 42	33 16														
11	37 26	30 8	8 78	36 72	52 68	50 79	52 80	70 92	70 77	64 69	45 48	30 15														
12	44 97	44 16	16 48	32 72	54 70	51 96	66 83	69 93	68 68	58 39	44 38	19 8														
13	26 0	48 22	22 53	32 72	42 61	46 88	70 86	70 94	69 86	70 64	37 38	26 18														
14	3 -12	40 30	30 55	30 45	39 60	50 76	62 87	66 92	60 74	52 45	33 25	21 16														
15	6 -15	32 20	20 63	42 61	38 79	48 82	61 81	64 93	70 82	54 49	32 24	20 19														
16	38 5	52 28	28 56	37 73	47 85	44 76	58 84	60 95	70 90	65 72	40 30	24 44														
17	51 28	48 27	27 54	36 78	58 85	58 78	60 76	68 94	69 89	66 44	36 29	26 31														
18	50 20	38 21	21 46	28 84	44 84	55 84	64 80	62 95	71 92	62 39	20 30	26 39														
19	30 19	48 12	12 74	36 48	41 86	55 85	66 88	69 94	71 92	71 42	4 31	18 34														
20	28 14	60 25	25 72	50 48	43 84	58 70	54 90	74 95	72 80	54 42	34 35	20 34														
21	33 10	47 36	36 58	41 48	42 88	59 70	46 90	76 90	68 68	46 52	44 33	30 32														
22	46 32	35 90	54 32	56 34	90 60	74 48	88 69	68 63	67 39	50 38	32 26	40 21														
23	34 17	54 22	22 48	26 59	36 70	59 82	52 90	70 71	61 66	48 44	32 33	26 36														
24	27 0	36 18	18 39	30 54	33 74	58 75	53 92	68 74	57 83	46 49	26 42	32 29														
25	4 -5	34 22	22 44	29 60	33 82	56 82	58 88	69 66	48 79	48 60	32 39	32 24														
26	0 -4	46 14	14 59	32 54	43 88	60 82	60 88	70 72	56 63	45 68	43 38	24 37														
27	1 -5	62 32	32 42	32 50	45 74	60 88	61 72	61 84	54 66	47 56	39 38	22 52														
28	10 -12	77 38	38 46	30 60	48 76	60 83	59 76	64 90	59 68	41 42	36 39	22 41														
29	34 2	78 37	37 44	23 63	46 69	56 90	60 82	60 88	64 49	39 50	33 42	25 52														
30	37 6		6 40	25 67	40 66	50 94	64 82	60 76	64 70	33 52	44 42	28 49														
31	42 24		24 34		34 28		72 45		88 66	72 63		25 15														
AV.	31 16	38 18	51 28	62 39	72 51	84 60	83 64	83 63	76 54	59 39	41 29	29 14														
MEAN	22.6	28.0	39.5	50.1	61.6	72.2	73.9	72.8	65.3	48.9	35.1	21.4														
STA AV	28 10	38 15	47 24	61 38	73 51	81 60	86 65	82 60	74 52	63 42	46 28	33 18														

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 0001 to 2400 for the date shown. STA AV based on 8 yr record period.

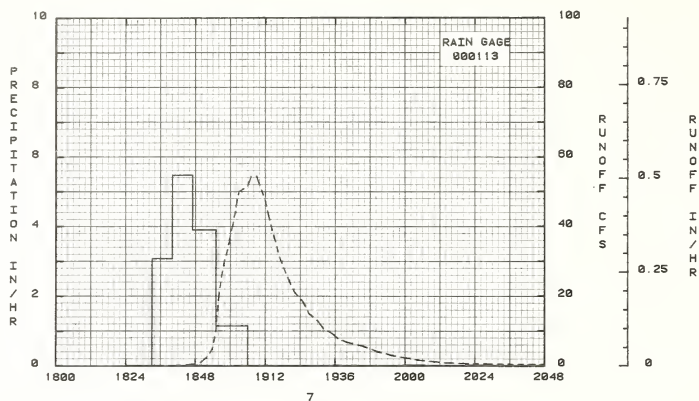
1972 DAILY PRECIPITATION (inches)													TREYBOS, IOWA WATERSHED 3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.13	0.0	0.0	0.32	0.0	0.03	0.13	0.22	0.0	0.77	0.0	1	0.0	0.13	0.0	0.0	0.32	0.0	0.03	0.13	0.22	0.0	0.77	0.0
2	0.0	0.06	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0	0.0	2	0.0	0.06	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0	0.0
3	0.0	0.0	0.02	0.0	0.13	0.0	0.0	0.09	0.0	0.03	0.0	0.0	3	0.0	0.0	0.02	0.0	0.13	0.0	0.0	0.09	0.0	0.03	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.15	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.15	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	2.78	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
6	0.0	0.0	0.0	0.0	0.0	1.14	0.0	0.53	0.0	0.0	0.0	0.44	6	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.44	0.0
7	0.0	0.0	0.0	0.0	0.0	1.68	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	1.68	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.16	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.16	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.51	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.51	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.50	0.0	0.94	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.50	0.94	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	3.86	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	3.86	0.0	0.0	0.07
12	0.0	0.0	0.02	0.0	0.32	0.0	0.0	0.0	0.65	0.0	0.05	0.47	12	0.0	0.0	0.02	0.0	0.32	0.0	0.0	0.0	0.65	0.0	0.05	0.47
13	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.56	0.0	0.0	0.53	0.0	13	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.56	0.0	0.53	0.0
14	0.0	0.0	0.12	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0
15	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.05	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	0.0	0.05	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	17	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.08	1.00	0.0	0.0	0.0	0.0	0.05	0.38	0.0	0.0	20	0.0	0.0	0.08	1.00	0.0	0.0	0.0	0.0	0.05	0.38	0.0	0.0
21	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.29	0.0	0.05	0.0	0.0	21	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.29	0.0	0.05	0.0	0.0
22	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	2.22	0.0	0.02	22	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	2.22	0.0	0.02
23	0.09	0.0	0.0	0.0	0.62	0.0	0.0	0.28	0.0	0.03	0.0	0.0	23	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.03	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.26	0.14	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.26	0.14	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.51	0.74	0.15	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.51	0.74	0.15	0.0
26	0.0	0.0	0.0	0.67	0.88	0.0	2.02	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.67	0.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.04	1.20	0.26	0.31	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.04	1.20	0.26	0.31	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	28	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0
29	0.0	0.0	0.0	0.01	0.24	0.0	0.0	0.0	0.18	0.0	0.0	0.16	29	0.0	0.0	0.0	0.01	0.24	0.0	0.0	0.0	0.0	0.18	0.0	0.16
30	0.0	0.0	0.06	0.00	0.0	0.0	0.0	0.08	0.0	1.17	0.0	0.28	30	0.0	0.0	0.06	0.00	0.0	0.0	0.0	0.08	0.0	1.17	0.0	0.28
31	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.02	0.0	0.14	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.02	0.0	0.14	0.0	0.0
TOTAL													TOTAL												
STA AV													STA AV												
0.17													0.17												
0.45													0.45												
0.57													0.57												
0.81													0.81												
3.31													3.31												
6.83													6.83												
3.17													3.17												
4.62													4.62												
1.63													1.63												
7.23													7.23												
4.06													4.06												
3.16													3.16												
2.99													2.99												
1.01													1.01												
0.87													0.87												

NOTES: Daily precipitation amounts are arithmetic average values from stations 113 and 114 before April 1 and after October 31; Thiessen weighted average values from rain gauges 112, 113 and 114 for remainder of year. STA AV based on 9 yr record period.

1972													TREYBOS, IOWA WATERSHED 3												
MEAN DAILY DISCHARGE (cfs)																									
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.042	0.017	0.020	0.018	0.059	0.125	0.0	0.110	0.056	0.043	0.119	0.147	1	0.042	0.017	0.020	0.018	0.059	0.125	0.0	0.110	0.056	0.043	0.119	0.147
2	0.039	0.017	0.021	0.020	0.055	0.121	0.260	0.101	0.053	0.039	0.094	0.147	2	0.039	0.017	0.021	0.020	0.055	0.121	0.260	0.101	0.053	0.039	0.094	0.147
3	0.030	0.017	0.022	0.020	0.055	0.118	0.128	0.099	0.053	0.039	0.099	0.147	3	0.030	0.017	0.022	0.021	0.055	0.118	0.130	0.096	0.056	0.039	0.111	0.147
4	0.033	0.017	0.022	0.021	0.083	0.118	0.128	0.094	0.050	0.039	0.117	0.147	4	0.033	0.017	0.022	0.021	0.083	0.118	0.128	0.094	0.050	0.039	0.117	0.147
5	0.031	0.017	0.024	0.021	0.304	0.122	0.141	0.091	0.051	0.039	0.119	0.147	5	0.031	0.017	0.024	0.021	0.304	0.122	0.141	0.091	0.051	0.039	0.119	0.147
6	0.028	0.015	0.022	0.022	0.169	0.114	0.127	0.091	0.045	0.039	0.117	0.147	6	0.028	0.015	0.022	0.022	0.169	0.114	0.127	0.091	0.045	0.039	0.117	0.147
7	0.030	0.014	0.022	0.022	0.135	0.151	0.118	0.089	0.044	0.039	0.117	0.147	7	0.030	0.014	0.022	0.022	0.135	0.151	0.118	0.089	0.044	0.039	0.117	0.147
8	0.027	0.016	0.022	0.022	0.147	0.125	0.127	0.087	0.047	0.039	0.127	0.147	8	0.027	0.016	0.022	0.022	0.147	0.125	0.127	0.087	0.047	0.039	0.127	0.147
9	0.027	0.012	0.022	0.022	0.157	0.147	0.132	0.080	0.062	0.039	0.117	0.147	9	0.027	0.012	0.022	0.022	0.157	0.147	0.132	0.080	0.062	0.039	0.117	0.147
10	0.027	0.010	0.022	0.022	0.177	0.147	0.132	0.077	0.268	0.039	0.117	0.147	10	0.027	0.010	0.022	0.022	0.177	0.147	0.132	0.077	0.268	0.039	0.117	0.147
11	0.027	0.010	0.022	0.022	0.147	0.143	0.128	0.078	0.122	0.039	0.117	0.147	11	0.027	0.010	0.022	0.022	0.147	0.143	0.128	0.078	0.122	0.039	0.117	0.147
12	0.025	0.063	0.022	0.021	0.124	0.166	0.147	0.075	0.073	0.039	0.142	0.147	12	0.025	0.063	0.022	0.021	0.124	0.166	0.147	0.075	0.073	0.039	0.142	0.147
13	0.022	0.070	0.023	0.022	0.117	0.167	0.128	0.068	0.073	0.039	0.139	0.147	13	0.022	0.070	0.023	0.022	0.117	0.167	0.128	0.068	0.073	0.039	0.139	0.147
14	0.022	0.025	0.021	0.022	0.113	0.142	0.124	0.064	0.073	0.039	0.147	0.147	14	0.022	0.025	0.021	0.022	0.113	0.142	0.124	0.064	0.073	0.039	0.147	0.147
15	0.022	0.142	0.020	0.026	0.109	0.141	0.122	0.063	0.073	0.039	0.147	0.147	15	0.022	0.142	0.020	0.026	0.109	0.141	0.122	0.063	0.073	0.039	0.147	0.147
16	0.022	0.055	0.023	0.020	0.107	0.147	0.135	0.062	0.073	0.043	0.147	0.147	16	0.022	0.055	0.023	0.020	0.107	0.147	0.135	0.062	0.073	0.043	0.147	0.147
17	0.024	0.017	0.023	0.020	0.105	0.147	0.130	0.061	0.063	0.047	0.147	0.147	17	0.024	0.017	0.023	0.020	0.105	0.147	0.130	0.061	0.063	0.047	0.147	0.147
18	0.022	0.017	0.020	0.026	0.104	0.157	0.128	0.061	0.060	0.047	0.147	0.147	18	0.022	0.017	0.020	0.026	0.104	0.157	0.128	0.061	0.060	0.047	0.147	0.147
19	0.022	0.021	0.023	0.032	0.104	0.147	0.123	0.060	0.056	0.054	0.147	0.147	19	0.022	0.021	0.023	0.032	0.104	0.147	0.123	0.060	0.056	0.054	0.147	0.147
20	0.022	0.019	0.020	0.058	0.113	0.141	0.115	0.067	0.057	0.055	0.147	0.147	20	0.022	0.019	0.020	0.058	0.113	0.141	0.115	0.067	0.057	0.055	0.147	0.147
21	0.022	0.019	0.021	0.020	0.108	0.141	0.115	0.059	0.056	0.057	0.147	0.147	21	0.022	0.019	0.021	0.020	0.108	0.141	0.115	0.059	0.056	0.057	0.147	0.147
22	0.022	0.021	0.022	0.027	0.143	0.146	0.115	0.057	0.057	0.067	0.147	0.147	22	0.022	0.021	0.022	0.027	0.143	0.146	0.115	0.057	0.057	0.067	0.147	0.147
23	0.021	0.022	0.022	0.027	0.117	0.139	0.116	0.055	0.057	0.064	0.147	0.147	23	0.021	0.022	0.022	0.027	0.117	0.139	0.116	0.055	0.057	0.064	0.147	0.147
24	0.017	0.022	0.022	0.027	0.113	0.139	0.117	0.064	0.085	0.064	0.147	0.147	24	0.017	0.022	0.022	0.027	0.113	0.139	0.117	0.064	0.085	0.064	0.147	0.147
25	0.017	0.022	0.022	0.027	0.113	0.139	0.117	0.064	0.085	0.064	0.147	0.147	25	0.017	0.022	0.022	0.027	0.113	0.139	0.117	0.064	0.085	0.064	0.147	0.147
26	0.017	0.022	0.021	0.036	0.170	0.136	0.313	0.055	0.055	0.064	0.147	0.147	26	0.017	0.022	0.021	0.036	0.170	0.136	0.313	0.055	0.055	0.064	0.147	0.147
27	0.015	0.022	0.022	0.098	0.169	0.141	0.117	0.052	0.055	0.068	0.147	0.147	27	0.015	0.022	0.022	0.098	0.169	0.141	0.117	0.052	0.055	0.068	0.147	0.147
28	0.014	0.024	0.021	0.055	0.133	0.135	0.111	0.053	0.051	0.073	0.147	0.273	28	0.014	0.024	0.021	0.055	0.133	0.135	0.111	0.053	0.051	0.073	0.147	0.273
29	0.014	0.024	0.021	0.055	0.127	0.111	0.051	0.053	0.053	0.073	0.147	0.273	29	0.014	0.024	0.021	0.055	0.127	0.111	0.051	0.053	0.053	0.073	0.147	0.273
30	0.014	0.024	0.021	0.058	0.128	0.127	0.111	0.055	0.045	0.109	0.147	0.273	30	0.014	0.024	0.021	0.058	0.128	0.127	0.111	0.055	0.045	0.109	0.147	0.273
31	0.017	0.020	0.020	0.026	0.126	0.107	0.055	0.055	0.094	0.094	0.155	0.155	31	0.017	0.020	0.020	0.026	0.126	0.107	0.055	0.055	0.094	0.094	0.155	0.155
MEAN	0.0242	0.0270	0.0217	0.0301	0.1480	0.1715	0.1386	0.0721	0.0672	0.0534	0.1335	0.1595	MEAN	0.0242	0.0270	0.0217	0.0301	0.1480	0.1715	0.1386	0.0721	0.0672	0.0534	0.1335	0.1595
INCHES	0.167	0.174	0.150	0.201	1.020	1.145	0.899	0.457	0.448	0.368	0.891	1.100	INCHES	0.167	0.174	0.150	0.201	1.020	1.145	0.899	0.457	0.448	0.368	0.891	1.100
STA 49	0.249	0.500	0.483	0.293	0.463	0.803	0.413	0.275	0.291	0.331	0.300	0.310	STA 49	0.249	0.500	0.483	0.293	0.463	0.803	0.413	0.275	0.291	0.331	0.300	0.310

1972	SELECTED RUNOFF EVENT						TREYNOR, ICWA WATERSHED 3					
PRECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF JUNE 7, 1972												
EG 000113			EG 000113									
6- 7	0.0	0.021	6- 7	1833	0.0	0.0	6- 7	1830	0.117	0.0		
				1840	3.0857	0.36		1837	0.132	0.0001		
				1847	5.4856	1.00		1840	0.163	0.0002		
				1855	3.9001	1.52		1843	0.252	0.0003		
				1906	1.1454	1.73		1845	0.369	0.0004		
WATERSHED CONDITIONS:												
86% corn, 3-4 in. high;												
14% grassed waterways, roads												
and farmstead; grass 6-8 in.												
tall.												
								1848	0.693	0.0006		
								1850	1.150	0.0009		
								1852	2.621	0.0015		
								1853	3.751	0.0020		
								1854	5.422	0.0027		
								1855	9.883	0.0039		
								1856	19.657	0.0062		
								1857	25.798	0.0097		
								1858	30.500	0.0140		
								1859	33.436	0.0189		
								1900	37.462	0.0244		
								1901	41.324	0.0305		
								1902	46.335	0.0372		
								1903	50.132	0.0446		
								1906	51.807	0.0682		
								1907	54.408	0.0764		
								1909	54.408	0.0933		
								1910	51.807	0.1015		
								1912	47.346	0.1165		
								1913	43.295	0.1239		
								1915	37.018	0.1363		
								1917	30.915	0.1468		
								1920	24.693	0.1597		
								1922	21.247	0.1668		
								1925	18.386	0.1760		
								1927	14.975	0.1812		
								1930	12.934	0.1877		
								1932	10.683	0.1913		
								1935	9.283	0.1959		
								1937	7.812	0.1985		
								1940	6.792	0.2019		
								1942	6.332	0.2039		
								1945	5.721	0.2067		
								1947	5.171	0.2084		
								1950	4.192	0.2106		
								1955	3.081	0.2134		
								2000	2.251	0.2155		
								2005	1.560	0.2170		
								2010	1.100	0.2180		
								2015	0.815	0.2187		
								2020	0.617	0.2193		
								2030	0.452	0.2201		
								2043	0.342	0.2209		
								2048	0.296	0.2211		
								2100	0.252	0.2216		
								2109	0.214	0.2219		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005265. Event precipitation totals for rain gage 112 and 114 are 1.79 and 1.53 in., respectively, and the Thiessen weighted average event precipitation is 1.66 in.



EVENT OF JUNE 7, 1972
TREYNOR, IOWA WATERSHED 3

TREYNOR, IOWA WATERSHED 4

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri River Basin. Lat. 41 deg. 12 min. 36 sec. N.; Long. 95 deg. 38 min. 05 sec. W.

AREA: 150.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TREYNOR, IOWA WATERSHED 4											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1972	P	0.22	0.26	0.49	4.56	6.81	3.56	4.70	1.59	7.19	4.05	2.59	1.02	37.04											
	Q	0.292	0.237	0.226	0.447	2.341	1.716	0.696	0.427	0.960	0.569	0.936	1.142	9.588											
STA AV	P	0.48	0.56	0.80	3.32	4.85	6.17	3.55	3.05	4.59	3.27	1.32	0.84	32.80											
	Q	0.379	0.393	0.561	0.466	0.863	1.095	0.788	0.534	0.572	0.517	0.512	0.506	7.185											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge				1 Hour		2 Hours		Maximum Volume for Selected Time Interval				6 Hours		12 Hours		1 Day		2 Days		8 Days			
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1972		6-7	0.607	6-7	0.179	5-5	0.240	5-5	0.563	5-5	0.676	5-5	1.036	5-5	1.316	5-5	1.743								
MAXIMUMS FOR PERIOD OF RECORD																									
		6-7	0.607	6-7	0.179	5-10	0.289	5-5	0.563	5-5	0.676	5-5	1.036	5-5	1.316	5-5	1.743								
1972		1972		1972		1971		1972		1972		1972		1972		1972		1972		1972		1972			

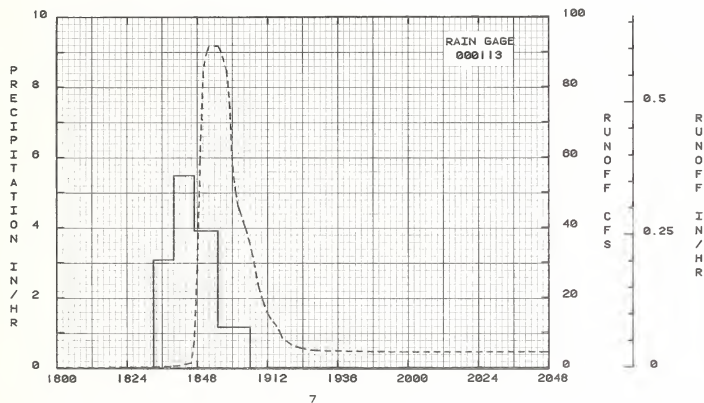
NOTES: Watershed conditions: 73% contoured corn above level terraces which have a capacity of 2 inches of runoff; 23% contoured corn below the bottom terraces; 3% grassed terrace back slopes; 1% gully. Precipitation from rain gage 113 before April 1 and after October 31; Thiessen average of gages 111, 112 and 113 for remainder of year. Precipitation records began January 1, 1964. Rainfall records began February 27, 1964. January 1 to February 27, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For revised topographic map of watershed, see p. 71.004-4 (of this publication). New terraces and pipe outlet system constructed fall 1971 and spring 1972. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1972 DAILY PRECIPITATION (inches)													TREYNOR, IOWA WATERSHED 4												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.13	0.0	0.0	0.34	0.0	0.03	0.13	0.20	0.0	0.76	0.0													
2	0.0	0.07	0.0	0.0	0.0	0.0	0.03	0.0	0.04	0.0	0.0	0.0													
3	0.0	0.02	0.0	0.12	0.0	0.0	0.0	0.08	0.0	0.05	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.18	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	2.71	0.0	0.0	0.0	0.0	0.0	0.02													
6	0.0	0.0	0.0	0.0	1.18	0.0	0.52	0.0	0.0	0.0	0.43	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.0	1.98	0.0	0.0	0.09	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.16	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.49	0.0												
10	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.47	0.0	0.93	0.0	0.0	0.0												
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	3.74	0.0	0.0	0.08												
12	0.0	0.0	0.03	0.0	0.31	0.0	0.0	0.0	0.67	0.0	0.05	0.46													
13	0.0	0.0	0.0	0.0	0.02	0.58	0.61	0.0	0.04	0.0	0.59	0.0													
14	0.0	0.0	0.13	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.06	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.15	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
19	0.0	0.0	0.0	0.40	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.08	1.00	0.0	0.0	0.0	0.0	0.05	0.39	0.0	0.0													
21	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.32	0.0	0.04	0.0	0.0													
22	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	2.22	0.0	0.02													
23	0.14	0.0	0.0	0.0	0.59	0.0	0.0	0.25	0.0	0.05	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.29	0.0	0.11	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.49	0.77	0.0	0.16	0.0													
26	0.0	0.0	0.0	0.66	0.85	0.0	1.99	0.0	0.0	0.0	0.0	0.0													
27	0.0	0.01	1.19	0.28	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.02	0.0	0.0													
29	0.0	0.0	0.0	0.01	0.28	0.0	0.0	0.0	0.19	0.0	0.0	0.17													
30	0.0	0.0	0.07	0.40	0.0	0.0	0.0	0.10	0.0	1.11	0.0	0.27													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.01	0.15	0.0	0.0	0.0													
TOTAL	0.22	0.26	0.49	4.56	6.81	3.56	4.70	1.59	7.19	4.05	2.59	1.02													
STA AV	0.48	0.56	0.80	3.32	4.85	6.17	3.55	3.05	4.59	3.27	1.32	0.84													

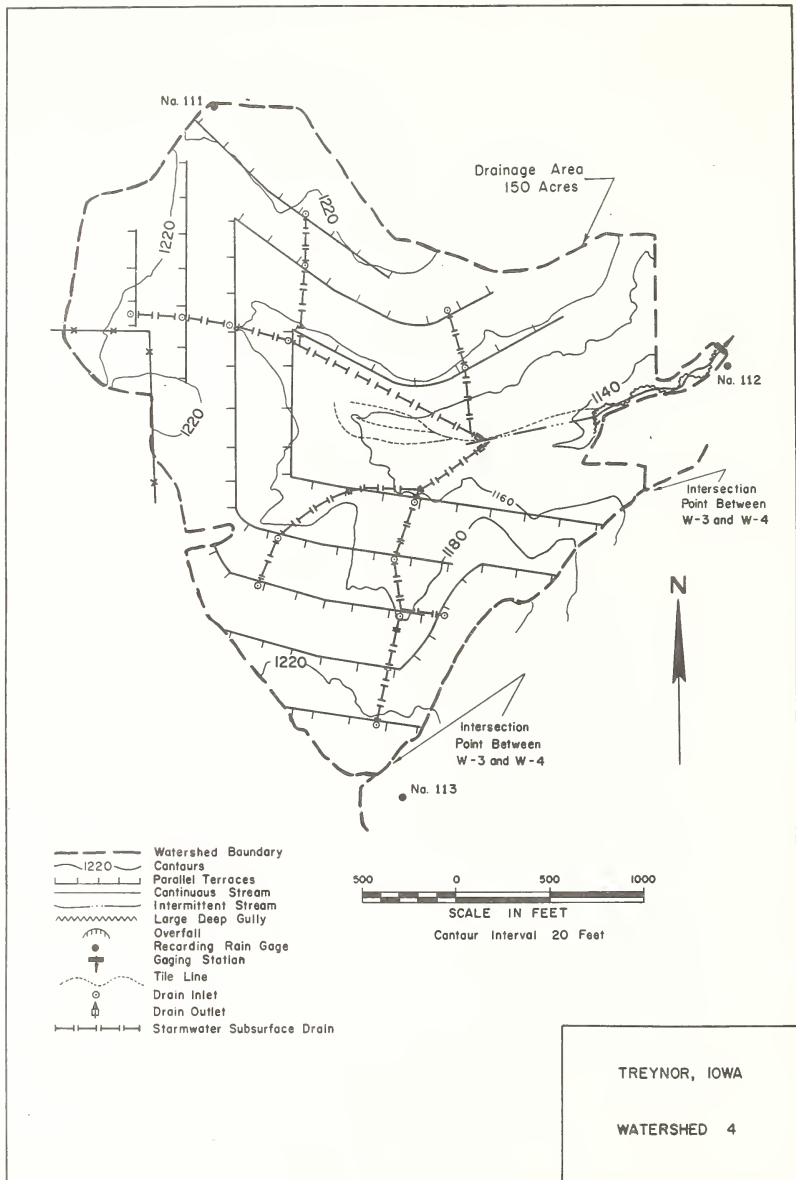
NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 111, 112 and 113 for period of April 1 through October 31, and from 113 for remainder of year. STA AV based on 9 yr record period.

1972 SELECTED RUNOFF EVENT				TREYNOR, IOWA WATERSHED 4					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)
EVENT OF JUNE 7, 1972 (CONTINUED)									
							6- 7	1910	19.927
								1911	17.466
								1912	15.496
								1913	13.935
								1914	12.914
								1915	11.953
								1916	10.353
								1917	8.413
								1920	6.472
								1923	5.602
								1925	5.192
								1927	4.917
								1930	4.781
								1939	4.642
								1950	4.501
								2000	4.367
								2053	4.367
								2055	4.232
								2057	4.232
								2200	4.001
								2230	3.886
								2330	3.886
								2400	3.943
									0.1530
									0.1551
									0.1569
									0.1585
									0.1600
									0.1614
									0.1626
									0.1636
									0.1661
									0.1681
									0.1693
									0.1704
									0.1720
									0.1767
									0.1822
									0.1871
									0.2126
									0.2135
									0.2144
									0.2430
									0.2560
									0.2817
									0.2986

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00661. Event precipitation totals for rain gages 111 and 112 are 2.28 and 1.79 in., respectively and the Thiessen average event precipitation is 1.98 in.



EVENT OF JUNE 7, 1972
TREYNOR, IOWA WATERSHED 4



COTTONWOOD, SOUTH DAKOTA WATERSHED H-2

LOCATION: Jackson County, South Dakota; approximately 3 miles east southeast of Cottonwood, Bad River Basin.
 Lat. 43 deg. 58 min. N.; Long. 101 deg. 52 min. W.

AREA: 2.13 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COTTONWOOD, SOUTH DAKOTA WATERSHED H-2													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1972	P	0.15	0.13	0.45	2.19	4.74	1.43	3.02	1.30	0.30	0.33	0.27	0.16	14.47													
	Q	0.033	0.072	0.0	0.0	0.684	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.790													
STA AV	P	0.29	0.35	0.56	2.12	2.89	3.21	1.79	1.31	1.37	0.61	0.32	0.36	15.16													
	Q	0.057	0.032	0.271	0.013	0.218	0.282	0.042	0.011	0.011	0.008	0.0	0.0	0.946													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge				1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days									
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Date	Date	Date	Date	Date	Date	
1972		5-25	0.904	5-25	0.440	5-25	0.472	5-25	0.476	5-25	0.479	5-25	0.479	5-25	0.479	5-25	0.596	5-19	0.596								
MAXIMUMS FOR PERIOD OF RECORD																											
		5-30	3.577	5-30	0.608	5-30	0.629	5-30	1.129	5-30	1.129	5-30	1.129	3-17	1.462	3-11	1.571										
		1963		1963		1963		1963		1963		1963		1969		1969											

NOTES: Watershed conditions: 100% heavily grazed rangeland. Vegetative cover in late July was 653 lbs./acre (oven-dry weight). For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 72-1-5. For temperature information, see table of maximum and minimum values included for watershed 72-005. Arithmetic mean of rain gages RH-1, RH-2, RH-3 and RH-4. Precipitation and runoff records began January 1963. Precipitation and runoff STA AV based on 10 yr record period. For long-time precipitation records, see National Weather Service records at Cottonwood, South Dakota.

1972 DAILY PRECIPITATION (inches)													COTTONWOOD, SOUTH DAKOTA WATERSHED H-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.02S	0.02S	0.0	0.26	0.0	0.0	0.18	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.72	0.0	0.0	0.0	0.0													
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.21S	0.0	0.02S													
6	0.0	0.0	0.0	0.0	0.04S	0.0	0.0	0.0	0.03	0.0	0.0	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.23	0.0	0.0	0.02S													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
9	0.0	0.01S	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.05	0.75	0.07	0.0	0.0	0.0	0.0	0.0	0.0													
11	0.0	0.0	0.0	0.04S	0.26	0.0	0.03	0.0	0.0	0.03S	0.17S	0.0													
12	0.0	0.0	0.03S	0.0	0.01	0.46	0.0	0.0	0.0	0.0	0.10S	0.0													
13	0.01S	0.0	0.02S	0.30S	0.04	0.0	0.09	0.0	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.07S	0.11S	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	0.0	0.0	0.44	0.05	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.05S	0.0	0.04	0.45	0.01	0.0	0.0	0.0	0.0													
18	0.0	0.0	0.0	0.10S	0.21	0.03	0.0	0.0	0.0	0.0	0.0	0.0													
19	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.10	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.08S	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0													
21	0.0	0.0	0.0	0.0	0.61	0.07	0.40	0.02	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.0	0.0	0.25	0.0	0.02	0.0	0.0	0.0	0.0	0.0													
23	0.10S	0.10S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
24	0.02S	0.0	0.20S	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0													
25	0.0	0.0	0.0	0.05	1.43	0.07	0.0	0.0	0.0	0.0	0.0	0.0													
26	0.01S	0.0	0.02S	0.51	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
27	0.01S	0.0	0.01S	0.52	0.53	0.0	0.24	0.0	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.09	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.01S													
30	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.07S	0.0	0.03S													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.19	0.02S	0.0	0.0	0.0													
TOTAL	0.15	0.13	0.45	2.19	4.74	1.43	3.02	1.30	0.30	0.33	0.27	0.16													
STA AV	0.29	0.35	0.56	2.12	2.89	3.21	1.79	1.31	1.37	0.61	0.32	0.36													

NOTES: Arithmetic mean of rain gages RH-1, RH-2, RH-3 and RH-4. STA AV based on 10 yr (1963-72) record period.

1972	MEAN DAILY DISCHARGE (cfs)						COTTONWOOD, SOUTH DAKOTA WATERSHED H-2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0001	0.0002	0.0	0.0	0.0020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.033	0.072	0.0	0.0	0.684	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.057	0.032	0.271	0.013	0.218	0.282	0.042	0.011	0.011	0.008	0.0	0.0

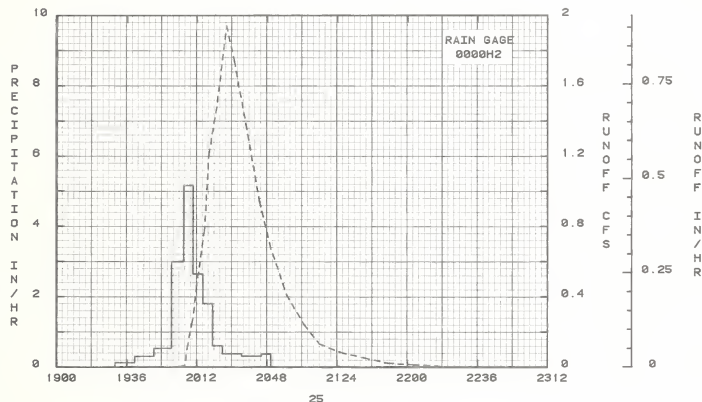
NOTES: To convert mean daily discharge in CFS to IS/DAY, multiply by 11.1745. STA AV based on 10 yr (1963-72) record period.

1972	SELECTED RUNOFF EVENT				COTTONWOOD, SOUTH DAKOTA WATERSHED H-2					
ANTECEDENT CONDITIONS				RAINFALL			SUBCFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-day	of Day	(cfs)	(inches)
EVENT OF MAY 25 - 26, 1972										
5-25	RG 0000H2	0.0	5-25	RG 0000H2			5-25	2002	0.0	0.0
	0.0	0.0		1930	0.0	0.0		2006	0.014	0.0002
				1940	0.1200	0.07		2007	0.106	0.0007
				1950	0.3000	0.15		2010	0.284	0.0052
				1959	0.5334	0.45		2012	0.483	0.0112
				2005	2.5998					
WATERSHED CONDITIONS:				2010	5.1603	0.88		2016	0.758	0.0311
100% heavily grazed range-				2015	2.6397	1.10		2018	1.208	0.0466
land; total vegetative cover				2020	1.8001	1.25		2022	1.476	0.0882
in late July was 653 lbs. per				2025	0.6000	1.341		2027	1.941	0.1546
acre (oven-dry weight).				2035	0.3600	1.36		2031	1.741	0.2117
				2045	0.3000	1.41		2037	1.380	0.2843
				2050	0.3600	1.44		2044	0.941	0.3474
								2050	0.668	0.3849
								2058	0.406	0.4182
								2107	0.238	0.4407
								2115	0.129	0.4521
								2126	0.081	0.4611
								2138	0.048	0.4671
								2150	0.021	0.4703
								2206	0.009	0.4722
								2222	0.005	0.4731
								2237	0.002	0.4735
								2246	0.002	0.4736
								2310	0.002	0.4740
								2335	0.002	0.4744
								2346	0.002	0.4746
								2359	0.002	0.4748
							5-26	26	0.002	0.4752
								45	0.0	0.4753
								100	0.0	0.4753

NOTES: To convert runoff in CFS to IS/HR, multiply by 0.4656.

1972 SELECTED RUNOFF EVENT			COTTENWOOD, SOUTH DAKOTA WATERSHED H-2								
PRECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF MAY 25 - 26, 1972 (CONTINUED)											
							5-26	115	0.0	0.4753	
								127	0.0	0.4753	
								147	0.005	0.4757	
								208	0.006	0.4766	
								237	0.003	0.4776	
								307	0.002	0.4782	
								337	0.002	0.4787	
								407	0.001	0.4790	
								432	0.0	0.4791	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.4656.



EVENT OF MAY 25 - 26, 1972
COTTENWOOD, SOUTH DAKOTA WATERSHED H-2

COTTONWOOD, SOUTH DAKOTA WATERSHED L-2

LOCATION: Jackson County, South Dakota; approximately 3 miles east southeast of Cottonwood, Bad River Basin.
Lat. 45 deg. 58 min. N.; Long. 101 deg. 52 min. W.

AREA: 2.38 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COTTONWOOD, SOUTH DAKOTA WATERSHED L-2																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																		
1972	P	0.13	0.13	0.41	2.04	4.64	1.07	2.91	1.31	0.28	0.28	0.16	0.15	13.51																	
	Q	0.0	0.019	0.0	0.0	0.609	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.828																	
STA AV	P	0.27	0.27	0.50	2.12	2.87	3.16	1.76	1.32	1.37	0.60	0.29	0.29	14.82																	
	Q	0.004	0.054	0.276	0.004	0.125	0.197	0.004	0.0	0.0	0.0	0.0	0.0	0.663																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
Maximum Discharge														Maximum Volume for Selected Time Interval																	
Date		Date		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days															
Date		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.							
1972	5-25	0.205	5-25	0.184	5-25	0.280	5-25	0.411	5-25	0.451	5-25	0.451	5-25	0.451	5-25	0.670	5-19	0.670													
MAXIMUMS FOR PERIOD OF RECORD																															
6-15		0.542		6-15		0.388		6-15		0.540		6-15		1.073		6-15		1.164		6-15		1.243		6-15		1.243		3-8		1.544	
1963				1963				1963				1963				1963				1963				1963				1966			

NOTES: Watershed conditions: 100% lightly grazed rangeland. Vegetative cover in late July was 843 lbs./acre (oven-dry weight). For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 72.2-4. For temperature information, see table of maximum and minimum values included for Watershed 72.005. Arithmetic mean of rain gages EL-1, EL-2, EL-3 and EL-4. Precipitation and runoff records began January 1963. Precipitation and runoff STA AV based on 10 yr record period. For long-time precipitation records, see National Weather Service records at Cottonwood, South Dakota.

1972 DAILY PRECIPITATION (inches)													COTTONWOOD, SOUTH DAKOTA WATERSHED L-2											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.02S	0.01S	0.0	0.27S	0.0	0.0	0.17	0.0	0.0	0.0	0.0												
2	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.69	0.0	0.0	0.0	0.0												
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04S												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.19S	0.0	0.05S												
6	0.0	0.0	0.0	0.0	0.04S	0.0	0.0	0.0	0.06	0.0	0.0	0.0												
7	0.0	0.01S	0.0	0.01S	0.0	0.0	0.04	0.0	0.20	0.0	0.0	0.01S												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
9	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
10	0.0	0.0	0.0	0.03S	0.76	0.05	0.0	0.0	0.0	0.0	0.0	0.0												
11	0.0	0.0	0.0	0.02S	0.24	0.0	0.02	0.0	0.0	0.02S	0.10S	0.0												
12	0.0	0.0	0.03S	0.0	0.02	0.18	0.0	0.0	0.0	0.0	0.06S	0.0												
13	0.01S	0.0	0.01S	0.25S	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0												
14	0.0	0.0	0.06S	0.12S	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0												
15	0.0	0.0	0.0	0.0	0.0	0.43	0.05	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.04S	0.0	0.02	0.38	0.0	0.0	0.0	0.0	0.0												
18	0.0	0.0	0.0	0.09S	0.21	0.03	0.0	0.0	0.0	0.0	0.0	0.0												
19	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.11	0.0	0.0	0.0	0.0												
20	0.0	0.0	0.08S	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0												
21	0.0	0.0	0.0	0.0	0.66	0.05	0.44	0.04	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.0	0.19	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0												
23	0.09S	0.08S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S												
24	0.03S	0.02S	0.19S	0.0	0.0	0.0	0.99	0.0	0.0	0.0	0.0	0.0												
25	0.0	0.0	0.0	0.05	1.42	0.05	0.0	0.0	0.0	0.0	0.0	0.0												
26	0.0	0.0	0.01S	0.49	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
27	0.0	0.0	0.02S	0.50	0.53	0.0	0.25	0.0	0.0	0.0	0.0	0.0												
28	0.0	0.0	0.0	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.01S												
30	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.06S	0.01S												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.20	0.01S	0.0	0.0	0.0												
TOTAL	0.13	0.13	0.41	2.04	4.64	1.07	2.91	1.31	0.28	0.28	0.16	0.15												
STA AV	0.27	0.27	0.50	2.12	2.87	3.16	1.76	1.32	1.37	0.60	0.29	0.29												

NOTES: Arithmetic mean of rain gages EL-1, EL-2, EL-3 and EL-4. STA AV based on 10 yr (1963-72) record period.

1972 MEAN DAILY DISCHARGE (cfs) COTTONWOOD, SOUTH DAKOTA WATERSHED 1-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.010R	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.005R	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.001R	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.002R	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.002	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0001	0.0	0.0	0.0026	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.019	0.0	0.0	0.809	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.004	0.054	0.276	0.004	0.125	0.197	0.004	0.0	0.0	0.0	0.0	0.0

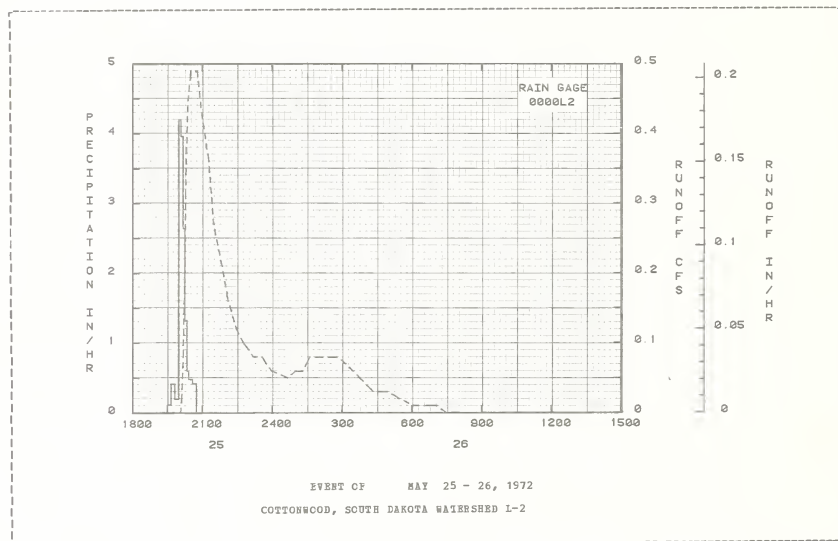
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 10.0007. STA AV based on 10 yr (1963-72) record period.

1972 SELECTED RUNOFF EVENT COTTONWOOD, SOUTH DAKOTA WATERSHED 1-2												
PRECIPITATION CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Time	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	of Day	(cfs)	(inches)	
EVENT CP MAY 25 - 26, 1972												
5-25	EG 000012	0.0	5-25	EG 000012	0.0	0.0	5-25	2004	0.0	0.0		
				1930	0.1200	0.02		2007	0.025	0.0003		
				1950	0.4200	0.09		2011	0.087	0.0019		
				1959	0.2000	0.12		2014	0.177	0.0047		
				2005	4.1997	0.54		2017	0.319	0.0099		
WATERSHED CONDITIONS:												
100% lightly grazed range-			2010	3.9602	0.67		2022	0.443	0.0231			
land: total vegetative			2015	2.6397	1.09		2030	0.493	0.0491			
cover in late July was 843			2020	1.3201	1.20		2047	0.493	0.1073			
lbs. per acre (oven-dry			2025	0.6000	1.25		2058	0.429	0.1425			
weight).			2035	0.4800	1.33		2117	0.356	0.1943			
			2045	0.4200	1.40		2129	0.269	0.2203			
							2151	0.214	0.2572			
							2207	0.158	0.2779			
							2228	0.124	0.2985			
							2246	0.059	0.3124			
							2300	0.087	0.3214			
							2312	0.061	0.3284			
							2322	0.078	0.3339			
							2334	0.076	0.3403			
							2345	0.070	0.3459			
							2359	0.060	0.3522			
							40	0.051	0.3680			
							100	0.062	0.3759			
							119	0.058	0.3836			
							137	0.085	0.3927			
							211	0.085	0.4128			
							247	0.065	0.4341			
							310	0.067	0.4462			
							345	0.048	0.4602			
							421	0.034	0.4704			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.4167.

1972 SELECTED RUNOFF EVENT			COTTONWOOD, SOUTH DAKOTA WATERSHED L-2							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 25 - 26, 1972 (CONTINUED)										
							5-26	458	0.026	0.4781
								528	0.018	0.4827
								605	0.012	0.4866
								640	0.008	0.4890
								706	0.006	0.4903
								728	0.002	0.4909
								744	0.0	0.4910
								803	0.0	0.4910
								816	0.0	0.4910

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.4167.



COTTONWOOD, SOUTH DAKOTA WATERSHED #1

LOCATION: Jackson County, South Dakota; approximately 3 miles east southeast of Cottonwood, Bad River Basin.
Lat. 43 deg. 58 min. N.; Long. 101 deg. 52 min. W.

AREA: 2.35 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COTTONWOOD, SOUTH DAKOTA WATERSHED #1														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1972	P 0.17	0.15	0.47	2.14	4.69	1.29	2.94	1.27	0.28	0.36	0.35	0.24	14.35														
	Q 0.016	0.157	0.0	0.0	0.426	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.599														
STA AV	P 0.31	0.36	0.56	2.15	2.88	3.19	1.79	1.29	1.34	0.64	0.32	0.38	15.20														
	Q 0.005	0.045	0.315	0.0	0.186	0.187	0.008	0.002	0.0	0.002	0.0	0.0	0.750														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
Maximum Discharge													Maximum Volume for Selected Time Interval														
Date		Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days												
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1972	5-25	0.435	5-25	0.252	5-25	0.274	5-25	0.275	5-25	0.278	5-25	0.278	5-25	0.278	5-25	0.367	5-19	0.367									
MAXIMUMS FOR PERIOD OF RECORD																											
5-30		2.030	5-30	0.710	5-30	0.760	5-30	1.122	5-30	1.122	5-30	1.122	3-8	1.538	3-8	1.913											
1963			1963		1963		1963		1963		1963		1966		1966												

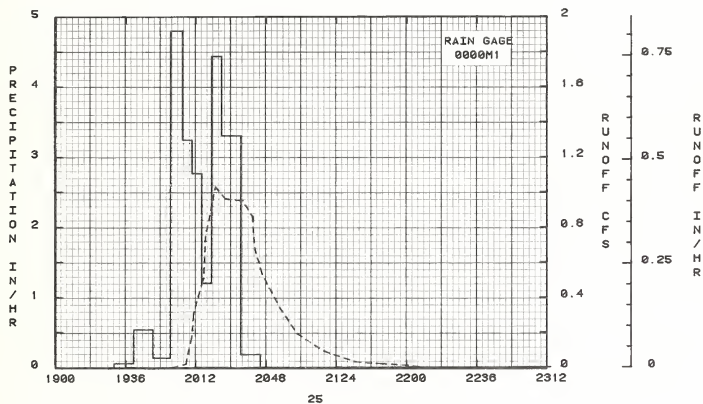
NOTES: Watershed conditions: 100% moderately grazed rangeland. Vegetative cover in late July was 626 lbs./acre (oven-dry weight). For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Risc. Pub. 1216, p. 72-5-7. Arithmetic mean of rain gages #1-1, #2-2, #3-3 and #4-4. Precipitation and runoff records began January 1963. Precipitation and runoff STA #1 based on 10 yr record period. For long-time precipitation records, see National Weather Service records at Cottonwood, South Dakota.

1972 DAILY AIR TEMPERATURE (degrees F)													COTTONWOOD, SOUTH DAKOTA WATERSHED #1													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	43 13	24 -18	23 -3	53 10	62 34	86 46	86 53	75 57	93 52	83 36	43 9	42 24	2	30 14	12 -11	32 10	68 26	82 36	87 58	76 52	74 49	69 41	79 46	51 22	34 7	
3	15 -3	14 -8	30 -2	44 14	61 30	81 56	68 39	68 51	84 47	79 39	64 23	9 1	4	19 -12	12 -15	42 18	52 12	66 28	86 57	72 39	81 54	85 45	86 30	62 21	6 -1	
5	36 7	10 -10	55 26	75 23	69 37	80 55	84 37	91 63	89 45	84 39	62 28	1 -14	6	43 12	12 -11	77 26	80 42	53 29	81 45	84 46	91 55	88 62	61 23	52 33	-1 -26	
7	49 15	15 -8	72 30	66 31	52 30	90 59	89 54	91 50	71 45	78 30	51 11	-3 -19	8	45 18	15 -9	49 11	62 29	58 29	88 63	87 54	84 49	82 46	77 38	52 20	-8 -30	
9	45 15	17 6	55 21	68 31	58 42	90 64	101 57	88 53	95 45	84 36	55 24	3 -9	10	48 15	25 8	83 18	65 34	51 44	83 56	88 49	95 60	85 59	86 46	55 11	10 -23	
11	41 9	38 -5	83 32	68 36	61 46	92 62	93 59	92 42	83 58	52 38	46 16	15 -20	12	43 15	42 5	55 30	71 40	67 38	93 62	93 55	100 70	92 57	74 25	28 21	12 -8	
13	16 -12	48 20	61 29	69 34	66 49	76 54	99 57	105 75	80 53	69 32	25 19	11 -18	14	-5 -22	48 20	58 25	60 29	75 47	80 45	97 58	96 61	86 42	70 39	23 10	24 -19	
15	30 -20	43 13	62 29	69 29	87 46	79 47	84 48	98 69	79 41	66 31	34 15	25 -9	16	55 22	41 28	64 29	60 29	89 45	79 58	88 50	96 64	87 47	68 35	30 22	28 -8	
17	50 24	48 33	60 35	63 40	90 45	84 57	88 54	98 62	86 43	43 24	27 22	42 2	18	39 15	42 12	75 23	55 32	88 61	82 56	84 51	98 62	95 37	37 14	31 24	47 15	
19	16 4	63 21	59 26	46 35	88 55	78 60	84 65	98 62	94 65	59 16	33 13	42 29	20	13 4	58 21	63 27	49 38	82 55	64 34	65 52	92 60	97 54	63 34	33 26	44 26	
21	54 6	50 12	66 27	66 26	89 54	64 48	84 53	105 67	75 33	62 32	29 23	49 21	22	40 11	57 12	56 19	62 35	88 53	67 41	86 63	87 52	97 32	57 28	40 18	62 33	
23	35 9	53 19	58 26	55 25	75 52	76 48	93 54	75 42	88 44	55 24	42 13	49 21	24	16 -2	24 2	56 34	55 18	75 48	85 59	92 56	75 46	69 38	56 23	45 16	44 9	
25	1 -21	32 13	57 20	57 37	82 53	83 56	86 52	84 42	64 45	65 30	40 27	42 18	26	-10 -18	43 9	46 32	52 39	81 49	85 57	89 56	86 44	61 22	70 29	45 22	53 18	
27	-5 -18	53 21	39 18	45 36	72 52	81 49	88 61	92 43	89 48	45 35	39 21	55 23	28	20 -30	73 35	40 12	46 41	69 50	83 46	84 61	94 46	88 40	45 10	37 15	49 22	
29	26 -4	38 16	41 10	57 24	68 47	94 49	95 58	95 55	63 32	43 25	38 14	42 22	30	36 5		45 18	48 41	69 44	93 51	100 58	98 59	81 35	33 20	42 19	22 11	
31	31 0		43 13		82 45		96 65	93 49		37 7		29 9	31	31 0												
AV.	30 2	36 8	55 22	60 31	71 44	82 53	87 54	90 55	83 45	63 29	42 19	28 3	MEAN	16.0	22.3	38.3	45.1	57.8	67.8	70.5	72.8	64.0	46.3	30.6	16.0	
STA AV	32 6	36 9	45 18	61 32	71 42	81 52	91 59	89 55	79 46	65 33	49 20	36 10														

NOTES: Temperature data from National Weather Service records at Cottonwood, South Dakota for 24 hour period ending a 1700. STA #1 based on 63 yr (1910-72) record period.

1972 SELECTED RUNOFF EVENT			COTTONWOOD, SOUTH DAKOTA WATERSHED #1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MAY 25, 1972										
RG 0000H1			RG 0000H1							
5-25	0.0	0.0	5-25	1930	0.0	0.0	5-25	2000	0.0	0.0
				1940	0.0600	0.01		2007	0.023	0.0006
				1950	0.5400	0.10		2008	0.083	0.0010
				1959	0.1333	0.12		2010	0.180	0.0028
				2005	4.7597	0.60		2011	0.319	0.0045
WATERSHED CONDITIONS:				2010	3.2402	0.87		2016	0.509	0.0191
100% moderately grazed range-				2015	2.7597	1.10		2017	0.745	0.0235
land; total vegetative cover				2020	1.2001	1.20		2022	1.030	0.0547
in late July was 626 lbs. per				2025	0.4800	1.24		2027	0.964	0.0898
acre (oven-dry weight).				2035	0.3000	1.29		2036	0.949	0.1503
				2045	0.1800	1.32		2041	0.861	0.1821
								2042	0.681	0.1876
								2046	0.530	0.2046
								2055	0.343	0.2322
								2104	0.195	0.2492
								2118	0.091	0.2633
								2134	0.033	0.2703
								2147	0.015	0.2725
								2201	0.006	0.2735
								2207	0.004	0.2737
								2211	0.003	0.2738
								2220	0.0	0.2739

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.4220.



EVENT OF MAY 25, 1972
COTTONWOOD, SOUTH DAKOTA WATERSHED #1

ABOSKIE, NORTH CAROLINA WATERSHED W-1

LOCATION: Bertford, Bertie, and Northampton Counties, North Carolina; approximately 3/4 mile southwest of Aboskie; Chohan Silver Basin.

AREA: 36480.00 acres 57.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)												ABOSKIE, NORTH CAROLINA WATERSHED W-1											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1972 P	2.76	3.88	2.22	2.27	7.62	3.93	6.18	2.28	2.85	3.32	4.06	3.57	44.50										
Q	1.881	3.053	0.810	0.855	2.486	2.098	0.704	0.780	0.171	0.384	0.820	2.031	16.071										
STA AV P	3.24	3.59	3.24	2.42	4.31	4.24	5.53	4.48	3.17	3.24	1.93	2.73	42.50										
Q	1.855	2.802	2.493	1.301	1.068	0.921	1.109	1.154	0.318	1.185	0.353	0.988	15.546										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
Maximum Discharge												Maximum Volume for Selected Time Interval											
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	4 Days	7 Days	10 Days	15 Days	Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	4 Days	7 Days	10 Days	15 Days
1972	6-1	0.030	6-1	0.030	6-1	0.050	5-31	0.150	5-31	0.310	5-31	0.620	5-31	1.060	5-26	1.250							
MAXIMUMS FOR PERIOD OF RECORD																							
10-5	0.070	10-5	0.070	10-5	0.140	10-5	0.420	10-5	0.830	10-5	1.650	10-5	3.020	10-3	4.140								
1964		1964		1964		1964		1964		1964		1964		1964		1964							

NOTES: Watershed conditions: Woodland, 65%; row crops, 30%; pasture, 2%; roads, urban, and homesites, 3%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 75.1-6. Records of precipitation began in 1954. Records of runoff began in 1950. STA AV computed on 1965-72 data. Precipitation Thiessen weighted using 10 gages. For long-term precipitation records, see National Weather Service records at Scotland Neck, North Carolina.

1972 DAILY AIR TEMPERATURE (degrees F)												ABOSKIE, NORTH CAROLINA WATERSHED W-1											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	62	26	50	18	78	47	56	35	80	49	75	54	89	60	86	65	83	61	69	42	65	42	52
2	64	40	47	34	81	54	56	32	84	88	83	45	91	62	88	66	72	59	73	46	80	48	63
3	68	31	51	34	73	46	63	27	84	60	85	50	92	68	91	66	87	59	77	51	79	61	67
4	59	37	54	27	52	28	74	44	78	57	82	64	83	71	88	62	78	57	76	55	70	29	
5	68	44	40	17	53	35	63	31	76	45	87	59	85	63	87	64	85	59	76	60	88	88	75
6	48	24	59	22	49	25	73	31	77	42	87	55	75	58	87	63	80	53	76	58	64	31	72
7	53	19	53	37	66	31	83	52	80	49	82	60	78	53	89	64	81	51	74	59	75	31	70
8	52	27	41	15	65	47	80	29	75	49	83	46	82	48	89	67	82	52	73	49	70	45	60
9	67	24	39	19	55	23	52	25	77	41	77	57	86	56	92	66	85	50	76	44	67	41	85
10	65	55	40	19	52	28	65	25	77	49	85	56	87	52	91	61	83	53	71	46	66	29	72
11	61	53	49	23	54	20	75	48	70	36	71	41	85	64	81	50	80	40	73	44	70	43	72
12	67	45	44	21	73	36	73	49	78	41	78	40	82	67	85	54	86	54	78	51	65	40	46
13	70	47	59	42	80	45	80	48	78	44	84	49	87	69	89	58	90	59	76	50	70	33	70
14	70	37	57	40	71	45	80	35	76	56	84	61	91	68	87	63	91	61	79	50	79	55	65
15	41	30	69	32	68	29	89	53	74	51	86	59	90	66	90	63	89	63	76	54	73	42	49
16	35	3	66	37	80	37	89	55	80	53	90	60	90	70	86	58	85	56	68	44	47	23	47
17	37	6	49	33	75	45	88	53	81	51	89	66	91	68	82	53	91	63	83	60	47	32	47
18	57	22	43	32	60	35	81	41	81	53	88	62	92	68	89	64	88	64	79	55	56	25	47
19	68	35	44	27	64	39	81	47	70	53	87	63	91	64	83	64	90	65	64	46	52	32	59
20	70	35	38	24	70	30	86	51	74	56	80	66	93	67	86	66	80	85	53	37	66	41	88
21	66	51	53	19	72	35	85	42	70	56	78	62	95	70	86	62	69	54	62	33	58	31	88
22	55	41	61	40	72	52	57	45	76	56	77	58	94	69	88	64	77	56	88	38	45	24	68
23	64	44	54	19	69	36	74	43	77	56	76	57	96	69	91	62	80	52	80	88	45	22	48
24	62	42	35	49	28	51	70	45	77	50	77	50	92	65	90	61	86	47	76	59	47	17	47
25	68	47	63	42	48	22	59	45	66	55	84	56	95	67	93	66	86	54	68	49	50	18	48
26	57	22	67	43	55	26	60	36	61	50	85	58	92	69	92	65	88	55	65	40	67	45	50
27	53	25	88	25	58	32	69	29	72	50	88	56	91	65	91	64	89	55	66	44	59	32	49
28	63	34	70	88	57	44	76	38	77	49	88	64	88	68	89	69	81	66	81	52	72	29	59
29	62	30	79	44	56	27	75	55	79	51	87	64	86	67	89	66	85	63	78	54	67	39	57
30	47	37	39	19	56	43	80	49	63	61	87	60	89	66	89	61	86	64	70	43	46	34	59
31	45	31			50	40					78	64			90	64	87	62					
AV.	59	34	54	29	63	36	73	42	76	52	84	56	89	65	89	63	84	57	73	49	63	36	59
REAR	46.5	41.5	49.5	57.8	64.3	69.9	76.6	75.8	70.8	60.6	45.4	46.7											
STA AV	51	28	53	31	62	37	73	46	80	54	86	61	89	66	87	64	82	58	73	48	63	37	53

NOTES: Temperature data from National Weather Service Station records at Lewiston, North Carolina. STA AV based on 19 yr (1954-72) record period.

1972 DAILY PRECIPITATION (inches)												AHOOSKIE, NORTH CAROLINA WATERSHED W-A1											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.43	0.01	0.0	0.0	0.0	0.0	0.36	0.29	0.0	0.0	0.0											
2	0.0	0.91	0.21	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
3	0.0	0.20	0.0	0.19	0.0	0.0	0.0	0.0	0.04	0.03	0.0	0.0											
4	0.52	0.0	0.08	0.0	0.0	0.0	0.09	0.06	0.78	0.14	0.0	0.0											
5	0.07	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	1.89	0.0	0.07											
6	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.54	0.0	0.11	0.0	0.0											
7	0.0	0.0	0.0	0.22	0.40	0.0	0.0	0.10	0.0	0.0	1.33	0.03											
8	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.18	0.0											
9	0.09	0.0	0.0	0.0	0.0	0.19	0.0	0.27	0.0	0.0	0.0	0.0											
10	0.56	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0											
11	0.10	0.0	0.0	0.15	0.0	0.0	1.98	0.0	0.0	0.0	0.0	0.0											
12	0.0	0.36	0.0	0.01	0.0	0.0	0.15	0.23	0.0	0.0	0.0	0.0											
13	1.20	0.46	0.0	0.35	0.81	0.0	0.0	0.04	0.0	0.0	0.32	0.16											
14	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	1.33	0.0											
15	0.0	0.0	0.62	0.0	0.46	0.01	0.0	0.0	0.24	0.0	0.06	0.0											
16	0.0	0.0	0.21	0.0	0.0	1.81	0.04	0.0	0.0	0.0	0.54	0.0											
17	0.0	0.46	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0											
18	0.0	0.35	0.0	0.0	0.08	0.25	0.0	0.0	0.0	0.43	0.46	0.0											
19	0.0	0.59	0.0	0.18	0.04	0.32	0.0	0.0	0.0	0.0	0.63	0.0											
20	0.0	0.0	0.0	0.0	0.47	0.95	0.0	0.0	0.14	0.0	0.0	0.50											
21	0.13	0.0	0.51	0.46	1.13	0.04	0.0	0.0	0.0	0.0	0.0	0.18											
22	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.21											
23	0.0	0.0	0.0	0.57	0.05	0.0	0.0	0.0	0.0	0.39	0.0	0.0											
24	0.0	0.11	0.0	0.14	0.0	0.0	1.27	0.0	0.24	0.0	0.0	0.0											
25	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.13											
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.04											
27	0.0	0.0	0.0	0.0	0.0	0.27	0.57	0.11	0.78	0.32	0.0	0.0											
28	0.0	0.0	0.0	0.0	0.0	0.20	0.88	0.0	0.22	0.0	0.0	0.0											
29	0.0	0.0	0.13	0.0	0.08	0.0	0.39	0.0	0.21	0.0	0.36	0.0											
30	0.09	0.45	0.0	0.15	1.81	0.0	0.34	0.0	0.0	0.0	0.23	0.0											
31	0.0	0.0	0.0	0.01	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0											
TOTAL	2.76	3.84	2.22	2.27	7.62	3.53	6.18	2.28	2.85	3.32	4.06	3.57											
STA AV	3.24	3.59	3.24	2.42	4.31	4.24	5.93	4.48	3.17	3.24	1.93	2.73											

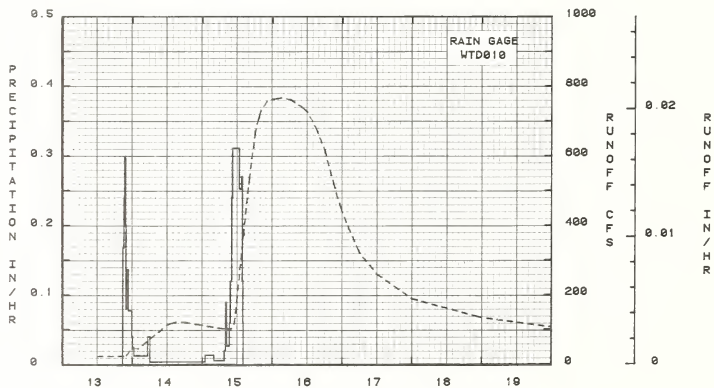
NOTES: Precipitation values are Thiessen weighted averages of 10 gages. STA AV based on 8 yr (1965-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)												AHOOSKIE, NORTH CAROLINA WATERSHED W-A1											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	21.00	28.00	40.00	86.00	21.00	781.00	15.00	118.00	8.10	8.40	8.70	53.00											
2	20.00	378.00	35.00	72.00	18.00	496.00	14.00	325.00	9.70	7.50	8.70	46.00											
3	20.00	402.00	35.00	54.00	47.00	139.00	12.00	153.00	10.00	7.20	8.70	37.00											
4	24.00	306.00	36.00	42.00	420.00	73.00	12.00	68.00	8.70	7.20	8.70	33.00											
5	54.00	185.00	35.00	44.00	186.00	48.00	11.00	40.00	11.00	7.20	8.70	29.00											
6	54.00	128.00	38.00	39.00	92.00	36.00	11.00	32.00	13.00	186.00	8.70	28.00											
7	44.00	105.00	33.00	33.00	54.00	47.00	11.00	61.00	11.00	69.00	8.70	26.00											
8	37.00	82.00	30.00	36.00	36.00	26.00	11.00	62.00	9.10	34.00	82.00	25.00											
9	32.00	66.00	28.00	40.00	38.00	20.00	10.00	33.00	8.40	22.00	52.00	27.00											
10	40.00	56.00	27.00	33.00	37.00	17.00	9.70	42.00	8.40	17.00	26.00	29.00											
11	147.00	47.00	26.00	30.00	28.00	16.00	9.70	28.00	8.40	15.00	20.00	28.00											
12	127.00	42.00	24.00	28.00	22.00	14.00	98.00	20.00	8.10	14.00	17.00	26.00											
13	349.00	228.00	22.00	28.00	19.00	13.00	106.00	17.00	8.10	13.00	15.00	26.00											
14	634.00	244.00	22.00	30.00	18.00	13.00	65.00	17.00	7.80	12.00	17.00	86.00											
15	290.00	139.00	22.00	74.00	22.00	12.00	35.00	15.00	7.80	11.00	18.00	310.00											
16	160.00	99.00	22.00	56.00	154.00	11.00	22.00	14.00	8.40	10.00	17.00	601.00											
17	105.00	104.00	70.00	40.00	112.00	159.00	18.00	12.00	8.70	9.70	38.00	246.00											
18	86.00	160.00	84.00	29.00	66.00	289.00	15.00	12.00	6.90	10.00	45.00	134.00											
19	78.00	587.00	62.00	24.00	134.00	74.00	14.00	12.00	6.40	10.00	36.00	104.00											
20	70.00	427.00	46.00	20.00	88.00	74.00	12.00	12.00	6.40	12.00	241.00	86.00											
21	65.00	218.00	36.00	20.00	63.00	234.00	11.00	11.00	6.90	9.70	134.00	74.00											
22	65.00	148.00	56.00	21.00	379.00	320.00	11.00	10.00	7.20	9.10	78.00	174.00											
23	60.00	104.00	96.00	29.00	586.00	107.00	9.70	10.00	7.20	8.70	57.00	191.00											
24	58.00	92.00	66.00	33.00	258.00	58.00	9.70	10.00	7.20	9.10	45.00	175.00											
25	47.00	79.00	50.00	102.00	176.00	38.00	20.00	10.00	7.20	9.70	39.00	121.00											
26	40.00	68.00	40.00	104.00	149.00	28.00	48.00	9.10	7.20	9.40	55.00	92.00											
27	36.00	60.00	35.00	64.00	96.00	22.00	19.00	8.70	6.90	8.70	55.00	103.00											
28	33.00	52.00	31.00	42.00	67.00	19.00	15.00	8.40	17.00	11.00	43.00	83.00											
29	31.00	45.00	28.00	31.00	48.00	18.00	54.00	8.40	11.00	11.00	36.00	65.00											
30	30.00	27.00	26.00	36.00	17.00	237.00	6.40	9.70	9.70	9.70	38.00	55.00											
31	30.00	35.00	30.00	300.00	133.00	8.10	9.70	9.70	9.70	9.70	0.0	0.0											
MEAN	93.00	161.35	40.03	43.67	122.50	107.17	34.75	38.55	8.73	18.97	41.50	100.42											
INCHES	1.081	3.053	0.810	0.855	2.486	2.098	0.704	0.480	0.384	0.820	2.031	2.031											
STA AV	1.855	2.802	2.493	1.301	1.068	0.921	1.109	1.154	0.318	1.185	0.353	0.988											

NOTES: To convert mean daily discharge in CFS to IRI/DAT, multiply by 0.0006525. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 8 yr (1965-72) record period.

1972 SELECTED RUNOFF EVENT			AHOOSKIE, NORTH CAROLINA WATERSHED W-11							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF DECEMBER 13 - 19, 1972										
12-13	RG WTD010 0.0	2.773	12-13	RG WTD010 2035	0.0	0.0	12-13	1200	24.500	0.0
				2100	0.1680	0.07		2100	23.500	0.0059
				2110	0.2400	0.11		2200	26.000	0.0066
				2130	0.3000	0.21		2300	38.900	0.0075
				2145	0.2000	0.26		2400	46.500	0.0087
WATERSHED CONDITIONS: Approximate land use 65% in woodland, 30% in row crops, 2% in pasture, 3% misc. (roads, homesites, and urban areas).				2200	0.0800	0.28	12-14	200	45.800	0.0112
				2235	0.1371	0.36		900	93.600	0.0245
				2345	0.0771	0.45		1200	115.000	0.0330
				2400	0.0400	0.46		1500	122.000	0.0427
			12-14	25	0.0240	0.47		1800	121.000	0.0526
				515	0.0124	0.53		2400	112.000	0.0716
				600	0.0400	0.56	12-15	700	101.500	0.0920
			12-15	100	0.0037	0.63		1000	102.500	0.1004
				400	0.0133	0.67		1100	119.000	0.1034
				730	0.0057	0.69		1200	199.000	0.1077
				800	0.0200	0.70		1400	374.000	0.1233
				820	0.0900	0.73		1600	533.858	0.1480
				830	0.0600	0.74		1800	663.000	0.1805
				915	0.0267	0.76		1900	704.358	0.1951
				935	0.0600	0.78		2000	731.000	0.2186
				1000	0.1200	0.83		2200	756.198	0.2590
				1015	0.2400	0.89		2400	763.358	0.3003
				1230	0.3111	1.59	12-16	300	767.000	0.3627
				1320	0.2520	1.80		600	761.600	0.4250
				1340	0.2700	1.89		1000	740.000	0.5066
				1350	0.1200	1.91		1200	725.600	0.5464
				1400	0.0600	1.92		1500	679.000	0.6037
								1800	615.000	0.6565
								2100	520.358	0.7028
								2400	436.000	0.7418
							12-17	600	319.000	0.8034
								1200	258.500	0.8505
								2400	188.000	0.9233
							12-18	2400	133.000	1.0280
							12-19	2400	107.000	1.1063

NOTES: To convert CFS to I₈/H₈, multiply by 0.00002719. Precipitation is Thiessen average of 10 rain gages.



EVENT OF DECEMBER 13 - 19, 1972
AHOOSKIE, NORTH CAROLINA WATERSHED W-11

LOCATION: Hertford, Bertie, and Northampton Counties, North Carolina; approximately 5 miles northwest of Aulander; Chowan River Basin.

AREA: 15360.00 acres 24.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						ABOSKIE, NORTH CAROLINA WATERSHED W-A2										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1972 P	2.82	3.93	2.24	2.46	7.61	3.22	5.22	2.11	2.65	2.65	4.08	3.80	42.79			
Q	1.405	2.171	0.682	0.637	2.083	1.006	0.361	0.246	0.099	0.135	0.471	1.927	11.221			
STA AV P	3.24	3.45	3.13	2.40	4.25	4.15	5.48	4.26	3.01	3.18	1.93	2.72	41.19			
Q	1.646	2.526	2.068	1.109	0.972	0.853	0.930	0.863	0.209	0.578	0.276	0.904	13.333			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1972	5-31	0.030	5-31	0.030	5-31	0.060	5-31	0.160	5-31	0.310	5-31	0.500	5-31	0.650	12-14	0.950
MAXIMUMS FOR PERIOD OF RECORD																
10- 5	0.080	10- 5	0.080	10- 5	0.170	10- 5	0.500	10- 5	0.970	10- 5	1.640	10- 4	2.370	10- 3	3.060	
1964		1964		1964	1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Woodland, 75%; row crops, 22%; pasture, 2%; roads & homesites, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pnb. 1216, p. 75-1-8. Records of precipitation and runoff began in 1964. STA AV computed on 1965-72 data. Precipitation Thiessen weighted using 5 gages. For temperature information, see table of maximum and minimum values included with data for Watershed 75.001. For long-time precipitation records, see National Weather Service records at Scotland Neck, North Carolina.

1972 DAILY PRECIPITATION (inches)						ABOSKIR, NORTH CAROLINA WATERSHED W-A2							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.18	0.32	0.0	0.0	0.0	
2	0.0	0.93	0.12	0.0	1.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.22	0.0	0.15	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	
4	0.56	0.0	0.13	0.0	0.0	0.0	0.08	0.07	0.85	0.04	0.0	0.0	
5	0.05	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	1.42	0.0	0.0	0.08
6	0.0	0.0	0.0	0.01	3.0	0.0	0.0	0.52	0.0	0.11	0.0	0.0	
7	0.0	0.0	0.0	0.23	0.44	0.0	0.0	0.07	0.0	0.0	1.32	0.01	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	
9	0.11	0.0	0.0	0.0	0.0	0.20	0.0	0.15	0.0	0.0	0.0	0.0	
10	0.58	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	
11	0.10	0.0	0.0	0.17	0.0	0.0	0.0	1.54	0.0	0.0	0.0	0.0	0.0
12	0.0	0.42	0.0	0.01	0.0	0.0	0.12	0.22	0.0	0.0	0.0	0.0	0.55
13	1.18	0.46	0.0	0.45	0.47	0.0	0.0	0.01	0.0	0.0	0.31	0.0	0.20
14	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	1.39	
15	0.0	0.0	0.56	0.0	0.44	0.01	0.0	0.0	0.0	0.0	0.05	0.0	
16	0.0	0.0	0.26	0.0	0.0	1.44	0.03	0.0	0.0	0.0	0.53	0.0	
17	0.0	0.45	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.34	0.0	0.0	0.09	0.23	0.0	0.0	0.0	0.40	0.51	0.0	
19	0.0	0.64	0.0	0.27	0.06	0.26	0.0	0.0	0.0	0.0	0.63	0.0	
20	0.0	0.0	0.0	0.0	0.35	0.51	0.0	0.0	0.19	0.0	0.0	0.58	
21	0.14	0.0	0.53	0.54	1.07	0.05	0.0	0.0	0.0	0.0	0.0	0.20	
22	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.26	
23	0.0	0.0	0.0	0.51	0.04	0.0	0.0	0.0	0.0	0.81	0.0	0.0	
24	0.0	0.0	0.0	0.12	0.11	0.0	1.12	0.0	0.0	0.23	0.0	0.0	
25	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.11	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.05	
27	0.0	0.0	0.0	0.0	0.0	0.24	0.37	0.11	0.27	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.21	0.63	0.0	0.28	0.0	0.0	0.0	
29	0.0	0.0	0.17	0.0	0.19	0.0	0.49	0.0	0.21	0.0	0.39	0.0	
30	0.10	0.45	0.0	1.20	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.16	
31	0.0	0.0	0.0	0.02	0.02	0.24	0.78	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.82	3.93	2.24	2.46	7.61	3.22	5.22	2.11	2.65	2.65	4.08	3.80	
STA AV	3.24	3.45	3.13	2.40	4.25	4.15	5.48	4.26	3.01	3.18	1.93	2.72	

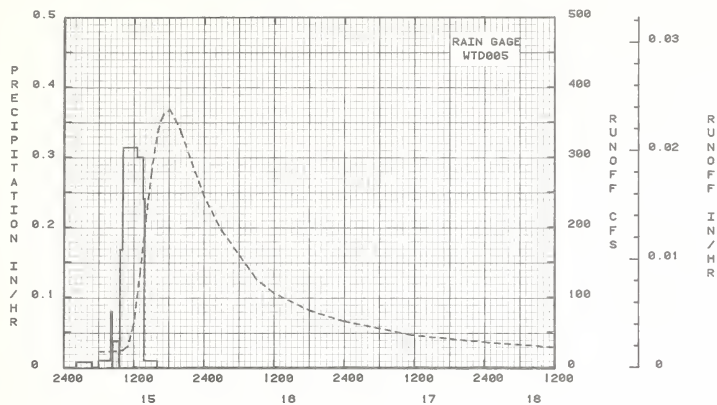
NOTES: Precipitation values are Thiessen weighted averages of 5 gages. STA AV based on 8 yr (1965-72) record period.

1972 MEAN DAILY DISCHARGE (cfs)													AROSKIE, NORTH CAROLINA WATERSHED W-42												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	5.90	8.90	15.00	26.00	5.90	229.00	5.80	17.00	2.80	2.30	4.20	12.00	2	5.90	107.00	14.00	20.00	5.90	62.00	4.80	26.00	3.80	1.50	4.20	9.00
3	7.20	96.00	14.00	14.00	54.00	30.00	4.80	10.00	2.30	1.20	4.20	6.80	4	16.00	76.00	14.00	12.00	114.00	15.00	4.80	6.80	1.90	1.20	4.20	5.80
5	25.00	49.00	13.00	13.00	50.00	10.00	4.20	6.00	4.00	1.20	4.50	4.80	6	21.00	38.00	14.00	11.00	27.00	7.80	4.00	5.50	5.00	21.00	5.00	4.20
7	18.00	33.00	12.00	8.00	16.00	6.50	4.00	8.70	3.00	9.30	5.20	4.00	8	16.00	26.00	11.00	12.00	11.00	5.80	4.00	7.80	3.50	3.50	36.00	3.20
9	13.00	22.00	9.20	11.00	16.00	5.00	3.50	5.80	1.70	1.90	12.00	4.70	10	24.00	18.00	8.30	9.20	12.00	4.80	4.00	5.00	1.50	1.20	5.00	5.20
11	46.00	16.00	7.50	7.50	8.80	4.50	4.80	4.20	1.50	1.10	3.80	4.90	12	38.00	15.00	6.90	8.00	6.80	4.00	42.00	4.00	1.40	0.90	2.80	4.00
13	162.00	97.00	6.90	10.00	5.80	3.80	16.00	4.50	1.20	1.10	2.20	4.20	14	132.00	73.00	5.60	14.00	6.50	3.50	12.00	5.00	1.40	1.20	4.20	39.00
15	66.00	48.00	5.20	25.00	10.00	3.20	7.80	2.00	1.50	1.40	3.60	226.00	16	43.00	36.00	5.20	18.00	61.00	3.00	4.80	2.30	1.70	1.20	2.20	193.00
17	30.00	45.00	35.00	12.00	35.00	37.00	3.20	2.50	1.40	1.10	11.00	69.00	18	26.00	80.00	31.00	9.20	39.00	40.00	2.30	2.50	1.40	1.20	9.20	38.00
19	25.00	140.00	22.00	6.60	78.00	20.00	2.50	2.50	1.40	1.50	8.00	28.00	20	23.00	100.00	16.00	5.60	46.00	16.00	1.90	2.80	1.20	1.70	66.00	23.00
21	22.00	70.00	13.00	8.30	28.00	27.00	2.00	3.00	1.70	1.50	26.00	21.00	22	22.00	50.00	30.00	8.30	193.00	38.00	2.30	2.80	1.50	1.40	14.00	114.00
23	21.00	35.00	32.00	16.00	148.00	17.00	2.30	2.80	1.90	1.50	8.50	110.00	24	18.00	25.00	22.00	12.00	71.00	12.00	2.30	2.50	1.90	2.30	6.80	86.00
25	17.00	22.00	16.00	38.00	52.00	9.50	6.60	2.50	1.50	3.50	6.00	56.00	26	13.00	20.00	13.00	30.00	42.00	8.20	10.00	2.20	1.50	2.80	13.00	40.00
27	12.00	19.00	11.00	18.00	26.00	7.00	5.80	2.20	1.50	2.50	10.00	48.00	28	11.00	18.00	8.60	12.00	16.00	6.00	3.20	2.30	4.00	4.00	7.50	34.00
29	10.00	18.00	6.60	9.20	11.00	6.50	13.00	2.80	2.80	4.20	6.50	25.00	30	10.00	7.80	7.10	7.50	7.00	21.00	2.30	2.80	3.00	7.80	21.00	
31	9.80	14.00		141.00			23.00	2.20		3.80		0.0	MEAN	29.252	48.307	14.167	13.700	43.361	21.637	7.506	5.113	2.127	2.813	10.127	40.123
INCHES	1.405	2.171	0.682	0.637	2.083	1.006	0.361	0.246	0.099	0.135	0.471	1.927	STA AV	1.646	2.526	2.068	1.109	0.972	0.853	0.930	0.863	0.209	0.978	0.276	0.904

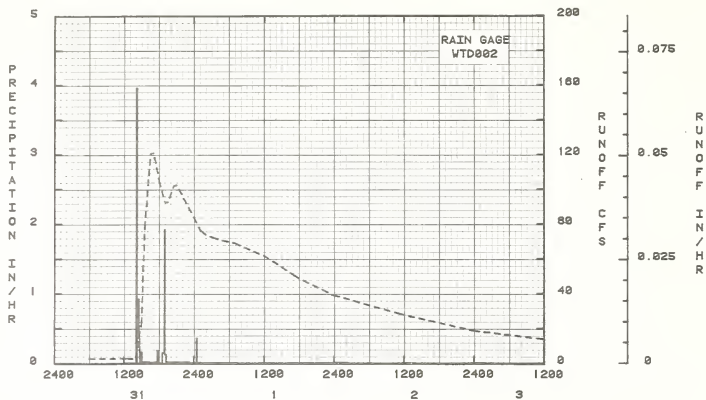
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0015496. Runoff data furnished by U.S. Geological Survey. Records are good. STA AV based on 8 yr (1965-72) record period.

1972 SELECTED RUNCFF EVENT												AROSKIE, NORTH CAROLINA WATERSHED W-42											
ANTECEDENT CONDITIONS						RAINFALL						RUNCFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Time	Rate	Acc.	Date	Time	Date	Time	Rate	Acc.					
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	Mo-Day	of Day	(cfs)	(inches)	Mo-Day	of Day	Mo-Day	of Day	(cfs)	(inches)					
EVENT OF DECEMBER 15 - 18, 1972																							
RG WTD005						RG WTD005																	
12-15	0.0	6.084	12-15	210	0.0	0.0	12-15	600	22.500	0.0													
				445	0.0077	0.02		900	23.000	0.0044								0.0044					
				600	0.0	0.02		1000	24.300	0.0059								0.0059					
				800	0.0100	0.04		1100	30.000	0.0077								0.0077					
				815	0.0800	0.06		1200	63.000	0.1007								0.1007					
WATERSHED CONDITIONS:																							
Approximate land use 75% in woodland; 22% in row crops; 2% in pasture; 1% misc. (roads and homesites).																							
				825	0.0	0.06		1300	138.000	0.0171													
				930	0.0369	0.10		1400	211.000	0.0282													
				935	0.0	0.10		1500	284.000	0.0442													
				1000	0.1680	0.17		1600	337.698	0.0683													
				1005	0.2400	0.19		1630	352.800	0.0754													
				1230	0.3165	0.95		1700	362.100	0.0869													
				1330	0.3000	1.25		1800	367.800	0.1105													
				1345	0.2400	1.31		1900	354.000	0.1338													
				1600	0.0089	1.33		2000	335.300	0.1561													
								2400	242.300	0.2307													
								12-16	300	194.800	0.2730												
									900	125.000	0.3349												
									1200	105.000	0.3572												
									1800	81.000	0.3932												
									2400	65.000	0.4215												
								12-17	1200	45.000	0.4641												
									2400	35.400	0.4952												
								12-18	1200	28.000	0.5198												
									2400	24.800	0.5403												

NOTES: To convert CFS to IN/8H, multiply by 0.00006457. Precipitation is Thiessen average of 5 rain gages.



EVENT OF DECEMBER 15 - 18, 1972
ABOSKIE, NORTH CAROLINA WATERSHED W-42



EVENT OF MAY 31 - JUNE 3, 1972
ABOSKIE, NORTH CAROLINA WATERSHED N-13

LOCATION: Hertford County, North Carolina; approximately 2 miles southwest of Aboskie; Chowan River Basin.

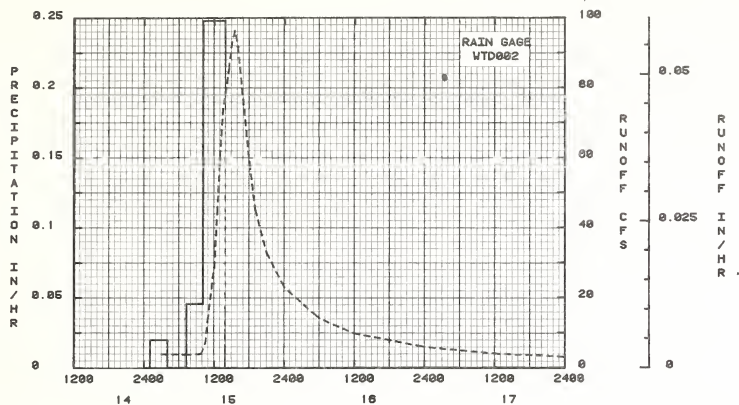
AREA: 1664.00 acres 2.60 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													ABOSKIE, NORTH CAROLINA WATERSHED W-A4												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1972	P	2.46	3.77	2.52	1.69	7.10	5.02	6.89	2.05	3.27	4.28	4.04	3.19	46.28											
	Q	1.045	1.729	0.515	0.324	1.592	2.938	0.828	0.461	0.102	0.177	0.762	1.368	11.839											
STA AV	P	3.25	3.72	3.55	2.73	4.56	4.08	6.62	5.17	3.54	3.44	1.80	2.84	45.29											
	Q	0.591	1.622	1.176	0.539	0.557	0.630	0.652	1.139	0.247	0.922	0.191	0.567	8.833											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													MAXIMUM VOLUME FOR SELECTED TIME INTERVAL												
		Discharge Date	1 Hour Rate	2 Hours Date	2 Hours Vol.	6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.										
1972		6-17	0.170	6-17	0.170	6-17	0.330	6-17	0.860	6-17	1.210	6-17	1.330	6-17	1.410	6-17	2.470								
MAXIMUMS FOR PERIOD OF RECORD																									
		6-17	0.170	6-17	0.170	6-17	0.330	6-17	0.860	6-17	1.210	1-13	1.660	9-30	2.030	8-21	3.480								
		1972		1972		1972		1972		1972		1968		1971		1967									

NOTES: Watershed conditions: Woodland, 60%; row crops, 39%; homesites, pastures, and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 75.1-8. Records of precipitation and runoff began in 1964. STA AV computed on 1965-72 data. Precipitation Thiessen weighted using 2 gages. For temperature information, see table of maximum and minimum values included for Watershed 75.001. For long-time precipitation records, see National Weather Service records at Scotland Neck, North Carolina.

1972 DAILY PRECIPITATION (inches)														ABOSKIE, NORTH CAROLINA WATERSHED W-A4													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.48	0.05	0.0	0.0	0.0	0.0	0.45	0.24	0.0	0.0	0.0														
	2	0.0	0.85	0.32	0.0	1.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	3	0.0	0.20	0.0	0.14	0.0	0.0	0.0	0.11	0.08	0.0	0.0	0.0														
	4	0.39	0.0	0.06	0.0	0.0	0.0	0.10	0.06	0.65	0.27	0.0	0.0														
	5	0.11	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	2.51	0.0	0.07														
	6	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.46	0.0	0.10	0.0	0.0														
	7	0.0	0.0	0.0	0.18	0.33	0.0	0.0	0.05	0.0	0.0	1.35	0.05														
	8	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.18														
	9	0.01	0.0	0.0	0.0	0.0	0.20	0.0	0.31	0.0	0.0	0.0	0.0														
	10	0.52	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0														
	11	0.07	0.0	0.0	0.07	0.0	0.0	2.30	0.0	0.0	0.0	0.0	0.0														
	12	0.0	0.28	0.0	0.0	0.0	0.0	0.16	0.11	0.0	0.0	0.0	0.39														
	13	1.10	0.43	0.0	0.19	0.34	0.0	0.0	0.03	0.0	0.0	0.28	0.11														
	14	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	1.18														
	15	0.0	0.0	0.73	0.0	0.52	0.0	0.0	0.0	0.77	0.0	0.08	0.0														
	16	0.0	0.0	0.24	0.0	0.0	1.29	0.05	0.0	0.0	0.0	0.53	0.0														
	17	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0														
	18	0.0	0.35	0.0	0.0	0.10	0.12	0.0	0.0	0.0	0.46	0.45	0.0														
	19	0.0	0.60	0.0	0.11	0.02	0.51	0.0	0.0	0.0	0.0	0.62	0.0														
	20	0.0	0.0	0.0	0.0	0.50	1.72	0.0	0.0	0.11	0.0	0.0	0.43														
	21	0.13	0.0	0.52	0.45	1.13	0.02	0.0	0.0	0.0	0.0	0.0	0.15														
	22	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.15														
	23	0.0	0.0	0.35	0.09	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0														
	24	0.0	0.0	0.0	0.13	0.16	0.0	1.26	0.0	0.0	0.0	0.25	0.0														
	25	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.12														
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.04														
	27	0.0	0.0	0.0	0.0	0.0	0.35	0.90	0.23	0.73	0.49	0.0	0.0														
	28	0.0	0.0	0.0	0.0	0.0	0.24	1.16	0.0	0.22	0.0	0.0	0.0														
	29	0.0	0.0	0.10	0.0	0.0	0.0	0.21	0.0	0.21	0.0	0.36	0.0														
	30	0.13	0.0	0.50	0.0	1.67	0.0	0.23	0.0	0.0	0.0	0.32	0.0														
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.35	0.0	0.0	0.0	0.0														
TOTAL		2.46	3.77	2.52	1.65	7.10	5.02	6.85	2.05	3.27	4.28	4.04	3.19														
STA AV		3.25	3.72	3.55	2.73	4.56	4.08	6.62	5.17	3.54	3.44	1.80	2.84														

NOTES: Precipitation values are Thiessen weighted averages of 2 gages. STA AV based on 8 yr (1965-72) record period.



EVENT OF DECEMBER 14 - 17, 1972
ABOSKIE, NORTH CAROLINA WATERSHED W-A4

